

## Scientific Programme

**Sunday, 01 October 2017**

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Functional Neurosurgery & Radiosurgery  
 09:30 - 12:30

Sala Pasinetti

### **Stereotactic Radiosurgery for Neurosurgeons: When and How to Combine Methods for Improved Functional Preservation hosted by the EANS Section of Radiosurgery**

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| <b>Spinal radiosurgery: Combination with partial resection or completion of incomplete resection</b>                                           | <b>09:30 - 09:48</b> |
| <b>Surgical resection in combination with stereotactic radiosurgery of brain metastases</b>                                                    | <b>09:48 - 10:06</b> |
| <b>Radiosurgery of postoperative remnants/recurrences after resection of pituitary adenoma</b>                                                 | <b>10:06 - 10:24</b> |
| <b>Stereotactic radiosurgery of AVM in the time after ARUBA</b>                                                                                | <b>10:24 - 10:42</b> |
| <b>Radiosurgery of partially resected or unresectable meningiomas</b>                                                                          | <b>10:42 - 11:00</b> |
| <b>Salvage fractionated radiosurgery of postoperative resection cavity using linac with modern techniques</b>                                  | <b>11:00 - 11:18</b> |
| <b>Surgical technique in a prospective combined surgical/radiosurgical approach for functional preservation in large vestibular schwannoma</b> | <b>11:18 - 11:36</b> |
| <b>Intended subtotal resection of large vestibular schwannoma in preparation for complementary radiosurgery</b>                                | <b>11:36 - 11:54</b> |
| <b>Stereotactic radiosurgery of trigeminal neuralgia in comparison to MVD or thermo-coagulation</b>                                            | <b>11:54 - 12:12</b> |
| <b>Wait and see or early radiosurgical treatment?</b>                                                                                          | <b>12:12 - 12:30</b> |

General  
 13:00 - 15:30

Sala Grande

### **FLANC Session**

Organised by the FLANC

|                                                                                                                       |                      |
|-----------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Is aggressive resection beneficial in Glioblastoma?</b>                                                            | <b>13:00 - 13:12</b> |
| <b>Motor cortex stimulation for central and neuropathic pain</b>                                                      | <b>13:12 - 13:24</b> |
| <b>Clinical mistakes in SAH management. Management of SAH in delayed diagnosed patients</b><br>E. Spagnuolo (Uruguay) | <b>13:24 - 13:36</b> |
| <b>Surgical treatment for Hemifacial spasm</b><br>R. Revuelta (Mexico)                                                | <b>13:36 - 13:48</b> |
| <b>Foramen magnum tumors. The dilemma of the approach: how to choose the best</b><br>J.A. Landeiro (Brazil)           | <b>13:48 - 14:00</b> |

## Scientific Programme

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| <b>Biological nucleoplastic in disc hernation</b>                                                                                                                  | <b>14:00 - 14:12</b> |
| <b>Management of chronic pain after transpedicular instrumentation</b><br>M. Masini (Brazil)                                                                       | <b>14:12 - 14:24</b> |
| <b>Surgical treatment of distal anterior cerebral artery aneurysms</b>                                                                                             | <b>14:24 - 14:36</b> |
| <b>Technological innovation in vascular neurosurgery: Risks associated with acceleration of technological transfer to the patient</b><br>M. Baccanelli (Argentina) | <b>14:36 - 14:48</b> |
| <b>Spinal AVMs: Microsurgical treatment</b><br>F. Papalini (Argentina)                                                                                             | <b>14:48 - 15:00</b> |
| <b>Intracranial dural arteriovenous fistulas - surgical or endovascular treatment. Where we are now?</b><br>J.Z. Yada (El Salvador)                                | <b>15:00 - 15:12</b> |
| <b>Lumbar disk: lessons learned from 1500 patients</b><br>R. Burgos (Colombia)                                                                                     | <b>15:12 - 15:24</b> |

Neuro-oncology  
 14:00 - 16:50

Sala Pasinetti

### Challenges in Neurosurgical Oncology hosted by the EANS Section of Neuro-oncology

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|-------------------------------------------------------------------------------------------|----------------------|
| <b>Introduction to the tumour section</b>                                                 | <b>14:00 - 14:20</b> |
| <b>Molecular imaging of brain tumours</b>                                                 | <b>14:20 - 14:50</b> |
| <b>Early re-operation to remove residual disease in tumour surgery: Should we bother?</b> | <b>14:50 - 15:20</b> |
| <b>Using ultrasound in neurosurgical oncology</b>                                         | <b>15:20 - 15:50</b> |
| <b>Techniques and strategies to minimise functional damage in brain tumour surgery</b>    | <b>15:50 - 16:20</b> |
| <b>The current status of intra-operative MRI in neurosurgical oncology</b>                | <b>16:20 - 16:50</b> |

General  
 16:00 - 18:30

Sala Grande

### Neurosurgery from Minimal to Maximal Resources: What are the differences?

Organised by the WFNS

|                                                                                    |                      |
|------------------------------------------------------------------------------------|----------------------|
| <b>Introduction: The concept of global neurosurgery</b><br>K. Park (United States) | <b>16:00 - 16:10</b> |
| <b>Vascular and endovascular surgery: I need all the best...</b>                   | <b>16:10 - 16:20</b> |
| <b>Vascular and endovascular surgery: I can do it with limited resources</b>       | <b>16:20 - 16:30</b> |

## Scientific Programme

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|------------------------------------------------------------------------------------------------------|----------------------|
| <b>Vascular and endovascular surgery: I can do it with limited resources</b><br>A. Adeleye (Nigeria) | <b>16:30 - 16:40</b> |
| <b>Meningiomas: I need all the best...</b>                                                           | <b>16:40 - 16:50</b> |
| <b>Meningiomas: I can do it with limited resources</b>                                               | <b>16:50 - 17:00</b> |
| <b>Meningiomas: I can do it with limited resources</b>                                               | <b>17:00 - 17:10</b> |
| <b>Spine surgery: I need all the best...</b><br>M. Fornari (Italy)                                   | <b>17:10 - 17:20</b> |
| <b>Spine surgery: I can do it with limited resources</b><br>R. Hartl (United States)                 | <b>17:20 - 17:30</b> |
| <b>Spine surgery: I can do it with limited resources</b>                                             | <b>17:30 - 17:40</b> |
| <b>Neurotrauma: I need all the best...</b>                                                           | <b>17:40 - 17:50</b> |
| <b>Neurotrauma: I can do with limited resources</b>                                                  | <b>17:50 - 18:00</b> |
| <b>Decompression surgery for Critical Glasgow Coma Score Patients</b><br>A.H. Bajamal (Indonesia)    | <b>18:00 - 18:10</b> |
| <b>Lecture: Can we stratify neurosurgical guidelines according to the available resources?</b>       | <b>18:10 - 18:25</b> |

General  
 16:30 - 21:00

Sala Welles

### 1st European Neurosurgery Simulation Session - ongoing sessions

not accredited

General  
 19:00 - 20:00

Sala Grande

### Welcome Session

Speeches - TBD

|                      |                      |
|----------------------|----------------------|
| <b>TBD</b>           | <b>19:00 - 19:10</b> |
| <b>TBD</b>           | <b>19:10 - 19:20</b> |
| <b>TBD</b>           | <b>19:20 - 19:30</b> |
| <b>TBD</b>           | <b>19:30 - 19:40</b> |
| <b>TBD</b>           | <b>19:40 - 19:50</b> |
| <b>Research Fund</b> | <b>19:50 - 19:55</b> |

## Scientific Programme

ePoster Presentations  
19:00 - 21:30

ePoster area

### ePosters

**Associations between Outcome and Radiological Screening Practices for Delayed Cerebral Ischaemia in Aneurismal Subarachnoid Haemorrhage**

M. Hollingworth (United Kingdom)

**The application of the unruptured intracranial aneurysm score - a retrospective, single-center analysis**

S. Hernandez Duran (Germany)

**Managing Elective Cerebrovascular Patients, Perspectives from a Mid-level Provider**

C. Lint (United States)

**A Meta-Analysis of The Different Intraoperative Blood Flow Assessment Modalities Used In Intracranial Aneurysm Surgery**

A. Lizan (Philippines)

**Incidence and risk factors of intracranial aneurysm: A national cohort study in Korea**

C.W. Oh (Korea, Republic of)

**Clip ligation of AcomA aneurysms: a prospective long-term outcome study**

Y. Aydin (Turkey)

**Treatment Strategy Based on Experience of Treating Intracranial Infectious Aneurysms**

J.S. Ahn (Korea, Republic of)

**Complication avoidance in Acom aneurysm surgery; an early experience of 16 cases**

**Headache Outcomes after Coil Embolization in Patients with Unruptured Intracranial Aneurysms: Do They Get Better or Worse?**

Y.W. Kim (Korea, Republic of)

**Preventing cerebral vasospasm after aneurysmal subarachnoid hemorrhage with cisternal clot removal and nicardipine**

N. Ota (Japan)

**Three-Dimensional Angiographic Evaluation of Middle Cerebral Artery Trunk Aneurysms: Demonstration of the Close Relationship Between the Early Frontal Cortical Branches and Lateral Lenticulostriate Arteries**

J.C. Park (Korea, Republic of)

**Acute EC-IC bypass for ruptured ICA blood blister-like aneurysms (BBAs)**

Y. Ueno (Japan)

**The role of micro-RNA in the pathogenesis of brain aneurysm. Can a blood sample predict the risk of aneurysm rupture?**

D. Bongetta (Italy)

**Vasospasm after subarachnoid hemorrhage causes not only luminal stenosis but also arterial constriction**

E. Hori (Japan)

## Scientific Programme

**Controversies on treatment of unruptured intracranial aneurysms: are UIATS and PHASES scores useful in daily practice in a Spanish population?**

O. Mateo-Sierra (Spain)

**Incidence and Morphometry of Caroticoclinoid Foramina in Human Dry Skulls**

E. Efthymiou (Greece)

**Minimally Invasive Keyhole Approach in Aneurysm Surgery : Concept & Technique**

A.A. Fauzi (Indonesia)

**Using of low-profile stents in treatment of complex cerebral aneurysms**

V. Kiselev (Russian Federation)

**short term outcome in patients with ruptured pericallesal artery aneurysms**

I. Grigoriev (Russian Federation)

**Management of complex internal carotid artery aneurysms by parent artery ligation**

A. Kaliyev (Kazakhstan)

**Safety and efficacy of endovascular treatment of distal part basilar artery aneurysms by coiling with or without assistance**

V. Kiselev (Russian Federation)

**Immediate Flow Disruption as a Prognostic Factor after Flow Diverter Treatment: Introduction of a Novel Scoring System**

P. Dodier (Austria)

**Intrathecal fibrinolytic therapy with alteplase in patients with massive aneurysmal subarachnoid hemorrhage**

V. Krylov (Russian Federation)

**Hunterian proximal arterial occlusion for giant intracranial aneurysms in the modern era. Is it still effective?**

I. Penguza (Moldova, Republic of)

**Factors associated with persistence of aneurysms after pipeline embolisation device**

T.F. Zhuang (Hong Kong)

**Contemporary Surgical Management of Anterior Circulation Cerebral Aneurysms**

B. Splavski (Croatia)

**Anterior choroidal aneurysms treatment - single centre study and review of the literature**

O. Bradáč (Czech Republic)

**The investigation of clipping surgery for aneurysmal subarachnoid hemorrhage in elderly patients aged 80 or older in Saitama medical university International Medical Center (SIMC)**

T. Maeda (Japan)

## Scientific Programme

**Prophylactic oral sodium chloride reduces incidence of hyponatraemia and length of stay in good-grade aneurysmal subarachnoid haemorrhage**

D. Holmes (United Kingdom)

**The results of microsurgical treatment of patients with single aneurysm of the anterior communicating artery**

V. Tkachev (Russian Federation)

**Aneurysm Rebleeding after Placement of External Ventricular Drainage: A Systematic Review and Meta-analysis**

F. Cagnazzo (Italy)

**The results of microsurgical treatment of patients with single aneurysm of the middle cerebral artery**

V. Tkachev (Russian Federation)

**Pterional approach and patient positioning in MCA aneurysms. A book review**

**Our experience in endovascular treatment of cerebral aneurysms**

V. Filipce (Macedonia, the Former Yugoslav Republic of)

**Aneurysmal SAH - Time to treat, external ventricular drainage and vasospasm**

D. Belo (Portugal)

**Factors Predicting Need for Post-operative Ventilation in Microsurgical Clipping of Cerebral Aneurysms - A Multivariate Analysis**

M.F. Khan (Pakistan)

**Volumetric analysis of the MCA - a novel parameter to assess cerebral vasospasm**

A. Neulen (Germany)

**Fully endoscopic transpterional port approach to middle cerebral artery and posterior communicating aneurysms: pilot surgical series**

H. Andrade-Barazarte (Canada)

**Cerebrovascular surgery utilizing high-resolution intraoperative imaging system (dual-image videoangiography, DIVA)**

**U.K. single unit experience of FLOW 800 usability with ICG VA in the treatment of 10 neurovascular cases**

D. Thompson (United Kingdom)

**Activation of immune system after aneurysmal subarachnoid hemorrhage**

R.M. Krzyżewski (Poland)

**SURGICAL MANAGEMENT OF MIDDLE CEREBRAL ARTERY ANEURYSMS**

M. Del Maestro (Italy)

**Dynamic intra aneurysmal flow in a patient with severe traumatic brain injury: A case-report**

D. Maloof (Colombia)

**Surgical Treatment of Anterior Circulation Aneurysms With SAH**

V. Tsikarishvili (Georgia)

## Scientific Programme

**Results of individual surgical approach for management middle cerebral artery aneurysms**

**tSAH due to traumatic avulsion of the opthalmic artery; case report and review of the literature**

A. Prior (Italy)

**Hemodynamics in the evaluation of intracranial aneurysm rupture risk**

A. Hejčl (Czech Republic)

**Selective embolization of aneurysms source of hemorrhage of ruptured brain AVMs temporarily protects from the risk of rebleeding**

F. Signorelli (France)

**The Dorsolateral Perforating Zone in the Leminiscal Trigone as a New Landmark for Brainstem Surgery. A micro Anatomical Study**

H. Krainz (Austria)

**Acute surgical treatment of low-grade ruptured arteriovenous malformations with simultaneous removal of life-threatening hematoma combined or not with pre- or postoperative embolization**

V. Panagiotopoulos (Greece)

**Spinal AVMs: a 14 years experience**

F. Papalini (Argentina)

**Could Thalidomide Be a Treatment Option for Arteriovenous Malformations?**

D. Bongetta (Italy)

**Controversies on treatment: ischemia vs hemorrhage, what to treat first? Simultaneous presentation of acute basilar ischemia and ruptured distal PICA aneurysm and AVM**

O. Mateo-Sierra (Spain)

**EVALUATION OF INTRAOPERATIVE BLOOD FLOW IN BRAIN ARTERIOVENOUS MALFORMATIONS LOCATED NEAR ELOQUENT AREA: INDICATIONS, FEASIBILITY AND UTILITY**

E. Crobeddu (Italy)

**Whether First Line Embolization and subsequent Microsurgery is Solution to Control Seizures in Patients with Cerebral AVMs or not?**

A. Krivoschapkin (Russian Federation)

**Surgical treatment of interhemispheric arteriovenous malformation**

V. Cuibotaru (Romania)

**Giant extracranial hemangioma in an adult**

**Spontaneous appearance of de novo Intracranial Arteriovenous Malformation in Hepatic Cirrhosis**

**Dynamics of angiogenic factors ( vascular endothelial growth factor, angiopoietin-2 and metalloproteinase-9) after endovascular treatment of cerebral AVM**

L. Rozhchenko (Russian Federation)

**Arteriovenous Malformation Surgery in Eloquent Regions**

M. Zaimoğlu (Turkey)

## Scientific Programme

**A Rare Presentation of Pial Arteriovenous Fistula by a Bilateral Thalamic Edema with a Successful Surgical Treatment: A Case Report, And Literature Review**

**CT- angiography neuronavigation in surgical treatment of vascular lesions**

**Surgical treatment of AVMs - current approach and experiences**

**Curative Embolization of Pediatric Ruptured Brain AVMs by Liquid Embolic Agents Mohamed Shadad MD, PHD, Mahmoud Shoaib**

**Diagnosis and treatment of the cavernous sinus hemangioma: a case report and literature review**

A. Tescher (Australia)

**Giant calcified extra-axial cavernoma of the falx cerebri. Case Report and review of the literature**

A. Simonin (Switzerland)

**Association between Neurofibromatosis type I and Cerebral Cavernous Malformations: Case report and review of the literature**

R. Uriel Lavín (Spain)

**Surgical treatment of brainstem cavernous malformations - A single center case series**

K. Mahdy Ali (Austria)

**Giant Cavernomas: a case report and a comparative review of the literature**

R. Diaz-Romero Paz (Spain)

**Gamma Knife radiosurgery for Cavernous Malformations. Results on 41-treated patients followed-up for at least 24 months**

P.P. Berti (Italy)

**De Novo multiple cavernomatosis in a Patient with recurrent haemorrhage in a brain stem cavernoma operated 19 years earlier: Case Report and Review of literature**

F.M. Fava (Italy)

**Resection of cavernous angiomas located in eloquent area using functional cortical e subcortical mapping. Our experience**

A. Bua (Italy)

**Intracranial pial arteriovenous fistula (pAVF): an underestimated pathology?**

L. Aste (Italy)

**Spinal Dural Arteriovenous Fistula: Is There A Role For Intra-operative Contrast Enhanced Ultrasound?**

**A Rare Presentation of Pial Arteriovenous Fistula: Bilateral Thalamic Edema with Successful Surgical Treatment. A Case Report and Literature Review**

A. Almutairi (Saudi Arabia)

**Predictive Factors of the Management of Spinal Cord Arteriovenous Fistulas**

T. Ibrahim (Egypt)



## Scientific Programme

**Arteriovenous Fistulae of the Filum Terminale : Report of 4 cases with video examples and literature review**

G. Lanzino (United States)

**Management of a challenging dural sinus malformation**

T. Papasilekas (Greece)

**Spinal vascular malformations: management and outcome**

Y. Orz (Saudi Arabia)

**Transarterial embolization of direct high flow carotid cavernous fistula by coils**

M. Shoaib (Egypt)

**Elective carotid artery stenting for high signal lesions on MR black blood images**

T. Mori (Japan)

**Association of Hepatic Amino-transferases Levels with Cerebro-vascular Stroke Subtype and Patient Outcomes: A Multi Centre Study in Saudi Arabia**

E. Alayad (Saudi Arabia)

**Neurocognitive Assessment in Moyamoya Patients After Bypass Surgery**

S.N.S. Lau (China)

**Comparison of somatosensory evoked potential and transcranial doppler monitoring to define intraoperative warning criteria for shunt placement in carotid endarterectomy**

K. Seidel (Switzerland)

**Spontaneous Spinal Epidural Hematoma Mimicking Cerebral Stroke**

T. Tanaka (Japan)

**The efficacy of DSC-MRI for evaluation of CVR in pediatric patients with moyamoya disease**

**Enhanced axonal extension of subcortical projection neurons isolated from murine embryonic cortex using surface fluorescence activated cell sorting**

N. Sano (Japan)

**Follow-up results of surgical treatment of internal carotid artery occlusion associated with clinically significant perfusion deficit in the neurosurgical clinic ICDC, Kazan, Russia**

A. Nemirovskiy (Russian Federation)

**Oxidative stress-Responsive Apoptosis Inducing Protein (ORAIP) Plays a Critical Role in Cerebral Ischemia/Reperfusion Injury**

M. Kishimoto (Japan)

**Experimental in vivo model of chemical ischemia**

K. Themistoklis (Greece)

**Neck tumors involving carotid artery**

**Profiling of circulating microRNAs as biomarkers of moyamoya disease: differential expressions in discordant monozygotic twins**

H. Uchino (Japan)

## Scientific Programme

**Surgery of internal carotid artery thrombosis in patients suffered from acute ischemic stroke**

V. Luk'yanchikov (Russian Federation)

**Extra-intracranial bypass as a treatment modality in occlusive cerebrovascular disease, aneurysms and tumors surgery**

G. Mrak (Croatia)

**Cerebral revascularization for disabling stroke. Perfusion analysis**

V. Lukshin (Russian Federation)

**Hemodynamic changes after cerebral revascularization in patients with occlusion and critical stenosis of carotid arteries**

V. Dalibaldyan (Russian Federation)

**Ischemic complications during carotid endarterectomy depending on brain tolerance to temporary cross-clamping of carotid arteries**

V. Dalibaldyan (Russian Federation)

**Extended Cerebral Venous Thrombosis mimicking Subarachnoid Hemorrhage**

K. Kovas (Greece)

**Crossed cerebellar diaschisis detected with BOLD MRI cerebrovascular reactivity**

M. Sebök (Switzerland)

**Stem Cell therapy in ischemic stroke. CELICTUS Clinical Trial. Technical note**

**Endoscopic-assisted harvest of occipital artery in EC-IC bypass surgery; An anatomical study**

A. Tortora (Germany)

**Endoscope-assisted harvest of frontal STA branch in EC-IC bypass surgery; An anatomical study**

A. Tortora (Germany)

**Strokectomy and cistern opening : a possible treatment for malignant cerebellar stroke**

F. Tartara (Italy)

**Strokectomy and cisterns opening : a possible treatment for malignant MCA stroke**

F. Tartara (Italy)

**Analysis of risk factors for hyperperfusion syndrome after revascularization surgery for moyamoya disease**

**Results of treatment of patients in the long-term period after cerebral revascularization**

T. Kudryashova (Russian Federation)

**CsA ameliorates mitochondrial dysfunction after transient cerebral ischemia in the endothelin-1 rat model**

A. Forsse (Denmark)

**Intracerebral Haemorrhage Evacuation by MIN Techniques**

K. Resch (Austria)

## Scientific Programme

**Endovascular surgery with stent retriever for severe cerebral sinus thrombosis**

I. Takano (Japan)

**Antithrombotic Medication Use and Misuse Among Patients with Intracranial Hemorrhage: A 16-Year, Lebanese, Single-Center Experience**

M. Ronald (Lebanon)

**Intracerebral and subarachnoid haemorrhage due to the rupture of a small peripheral aneurysm of the left pericallosa artery. Which role plays the DSA?**

J. Parsche (Germany)

**Surgical versus medical management: 30-day mortality of patients with operable Basal Ganglia Hemorrhage**

R.R. Reyes (Philippines)

**Primary cerebral angiosarcoma mimicking a mural hemorrhage of a giant thrombosed middle cerebral artery aneurysm: case report**

L. Aste (Italy)

**Improvement of respiratory depression in a patient with primary medullary hemorrhage following removal of hematoma in the half-sitting position**

S. Ichimura (Japan)

**Spontaneous intracerebral hemorrhage: clinical, laboratory and neuroimaging factors as possible predictors of outcome - a preliminary study**

A. Parlangeli (Italy)

**Comparison of endoscopic and open surgery putamenal hypertensive hematomas**

A. Sytnik (Russian Federation)

**Surgery of hemorrhagic stroke under endoscopic control**

A. Sytnik (Russian Federation)

**Neuroendocrine Trends and Outcome of Spontaneous Intracerebral Hemorrhage**

G.A. Wibawa (Indonesia)

**Management of Novel Oral Anticoagulant-Associated Intracranial Hemorrhage: A systematic review**

A. DiRisio (United States)

**Primary putaminal hemorrhage: Surgical Evacuation of hematoma via Transcortical transfrontal approach using single brain retractor**

X. You (Malaysia)

**Why we still yet hesitate with ultra-early surgery for spontaneous intracerebral hemorrhage?**

M. Vaverka (Czech Republic)

**Risks of carotid endarterectomy in patients in 8th and 9th decade of life**

V. Beneš (Czech Republic)

## Scientific Programme

### **Surgical treatment for non-atherosclerotic carotid lesions**

D. Usachev (Russian Federation)

### **Antiplatelet and Anticoagulant Therapy in Carotid Endarterectomies**

### **High cervical Antero lateral Retropharyngeal Approach is this the twilight zone?**

V.R.N. Gunness (Luxembourg)

### **Comparative MRI study on patients affected by L5-S1 disc herniation treated by microdiscectomy or endoscopic discectomy**

### **Analysis of Factors Influencing the Recurrence of Lumbar Disc Herniation after Micro Endoscopic Discectomy ( MED )**

K. Tanaka (Japan)

### **Modic change might not progress with age**

K. Tarukado (Japan)

### **C1 laminoplasty for the patients with cord compression at the C1 level**

T. Doi (Japan)

### **Ferromagnetic foreign body simulation in spine MR**

B. Ott (France)

### **Transarticular Facet Screw Fixation of the Subaxial Cervical spine**

N. Muthukumar (India)

### **Minimally invasive stabilization using percutaneous pedicle screws for intractable lumbar spondylodiscitis**

K. Ikuta (Japan)

### **Measurement method of uncinate process resection(UPR) and correlation between UPR and cervical instability in ACDF**

### **Comparison of Radiologic Outcomes of Three Different Methods in Single-level ACDF; Stand-alone cage versus PEEK-titanium combined anchored cage versus Anterior Cervical Plate Fixation**

### **Feasibility of Posterior Cervical Foraminotomy in Cervical Foraminal Stenosis: Prediction of Surgical Outcomes by the Foraminal Shape on Preoperative Computed Tomography**

### **Long-term clinical outcome and reoperation rate for microsurgical bilateral decompression via unilateral approach of lumbar spinal stenosis**

I. Yuce (Turkey)

### **Midterm outcome of thoracic disc herniations that were treated by microdiscectomy with bilateral decompression via unilateral approach**

I. Yuce (Turkey)

### **Placement of C1 lateral mass screw via the posterior arch guided by intraoperative computed tomography navigation system**

M.-H. Lee (Taiwan)

### **The Effect of Percutaneous Endoscopic Lumbar Discectomy on Adjacent Segment Disc Herniation after Instrumented Lumbar Fusion**

J.H. Shim (Korea, Republic of)

## Scientific Programme

**Accuracy of robot-guided versus freehand fluoroscopy-assisted pedicle screw insertion in thoracolumbar spinal surgery**

G. Molliqaj (Switzerland)

**Double Hinged Arms Spinal Retractor with Distal Articulation New Idea**

M.Y. Ghoneim (Saudi Arabia)

**ACDF with autograft stand-alone (without instrumentation) A series of 285 patient and a review of the literature**

A. Veroni (Italy)

**Long-term clinical outcomes and MRI findings after microsurgical posterior foraminotomy for the cervical radiculopathy**

Y. Nishimura (Japan)

**Microsurgical Approach to the lumbar Disc Herniation using Metri'x System**

B. Eljebbouri (Morocco)

**Yellow ligament doesn't age: a tissue forever young?**

19:00 - 19:10

B. Ott (France)

**The Use of Neuronavigation and Intraoperative Imaging in Spinal Stabilization Surgery**

**Degenerative Scoliosis: Surgical Decision Making**

M. Abdalla (Saudi Arabia)

**Experience with various surgical procedures in the management of cervical OPLL and their outcome**

K. Ganesh (India)

**Recurrent lumbar disc herniation after tubular microdiscectomy: Is the '10,000 Hour Principle' valid?**

**Pyoinflammatory complications of the surgery of thoracic and lumbosacral spine. Identify risk factors, develop an algorithm for diagnosing, treating and preventing pyoinflammatory complications**

V. Karanadze (Russian Federation)

**Complications of spinal instrumentation (SI)**

**Application of mini-invasive surgery for the treatment of patients with nonspecific spondylitis**

V. Lebedev (Russian Federation)

**Depression in patients with degenerative spinal disease**

J. Zika (Greece)

**Thoracic disc herniation- a deceptive enemy**

A. Stanuszek (Poland)

**Esophageal perforation complicating anterior cervical spine surgery**

D. Kasatkin (Russian Federation)

**Endoscope-assisted extreme-lateral interbody fusion (XLIF) - preliminary experience and technical note**

E. Tessitore (Switzerland)

## Scientific Programme

### **Management of post-operative cerebro-spinal fluid leaks**

#### **Efficacy of microendoscopic decompression in lumbar canal stenosis through a unilateral approach: Results in 30 patients**

A. Elwany (Egypt)

#### **Anterior cervical fusion with trabecular metal cages (porous tantalum) for the treatment of myelopathy caused by degenerative disc disease: 88 cases with minimum 12-month follow-up**

L. Mastronardi (Italy)

#### **Minimally invasive fusion of the sacroiliac joint using transarticular implants compared to conservative management - 2 year follow-up of a prospective randomized controlled multicenter trial**

J. Dengler (Germany)

### **The role of percutaneous discectomy in lumbar disc herniations**

G. Zapuhlii (Moldova, Republic of)

#### **Medial Branch Injection versus Radiofrequency Neurotomy in Lumbar Facet Arthropathy**

A. Matter (Egypt)

### **Sciatic pain due to intraspinal gas-filled cyst**

S. Banos (Greece)

### **Management of lumbar spondylosis and repeat lumbar surgery**

A. Nachanakian (Lebanon)

#### **Our experience of surgical treatment of failed back surgery syndrome with osteochondrosis of the lumbar division**

### **Surgical treatment of high degree spondilolisthesis(spondiloptosis)**

#### **Facet Joint Disease; To fix or Not To Fix? Biomechanics and Role of Surgery**

M. Abdalla (Saudi Arabia)

### **Short term results of lumbar spinous process-splitting laminectomy**

H. Hashidate (Japan)

#### **COMBINED USE OF EXPANDABLE PEDICLE SCREW WITH INTERBODY CAGE THROUGH XLIF APPROACH, FOR THE SURGICAL TREATMENT OF LUMBAR SPINAL DISEASE, IN OSTEOPOROTIC PATIENTS**

### **INTERSPINOUS VS NEW INTERLAMINAR DEVICE IN THE LUMBAR DDD**

G. Guizzardi (Italy)

### **Long term follow up after minimally invasive spine surgery in children**

M. Tichy (Czech Republic)

#### **A prospective observational study of return to work after single level lumbar discectomy by employment type in South Korea**

S.-H. Kang (Korea, Republic of)

#### **An ergonomic analysis of British Neurosurgeons: prevalence of operative discomfort and risk factors**

A. Alamri (United Kingdom)

## Scientific Programme

**Audit of a standard operating procedure to prevent wrong-level lumbar spinal surgery with intra-operative X-ray**

M. Abdelsadg (United Kingdom)

**Cage with Anterior Plating is Advantageous over the Stand-Alone Cage for Segmental Lordosis in the Treatment of Two-Level Cervical Degenerative Spondylopathy: a Retrospective Study**

P. Perrini (Italy)

**Early and late postoperative complications after anterior approach to the degenerative cervical spine**

S. Mihaylova (Bulgaria)

**Intra-operative imaging for spinal level localisation during lumbar surgery**

M. Dablouk (Ireland)

**Cauda Equina Syndrome (CES): an Audit of Documentation and Outcomes**

A. Demetriades (United Kingdom)

**PMMA-augmented pedicle screws in patients with poor bone quality. A consecutive series of 24 patients**

A. El Rahal (Switzerland)

**INTERSPINOUS PROCESS DECOMPRESSION AND FUSION WITH THE ASPEN DEVICE FOR LUMBAR SPINAL STENOSIS: RESULTS AFTER 4 YRS. FOLLOW-UP**

M. Balsano (Italy)

**Endoscopic discectomies versus Open discectomies: comparing outcomes in terms of infection and symptoms**

S. Das (United Kingdom)

**Differences between pulmonary and intracardiac cement embolism migration after percutaneous cementoplasty: Report of two cases and review of the literature**

A. Simonin (Switzerland)

**Posterior Approach for 360° Repair of Dural Defects in Spontaneous Intracranial Hypotension**

J. Beck (Switzerland)

**The role of quantitative diffusion tensor imaging in assessing functional outcome after surgery in patients with cervical spondylotic myelopathy**

L. Pavone (Italy)

**Combination of lidocaine 5% medicated plasters and 16 mg Lornoxicam as a treatment of chronic back pain in elements with amateur athletic activity**

N. Syrmos (Greece)

**Unusual complication after percutaneous stabilization: lumbar artery pseudoaneurysm**

A. Bolognini (Italy)

**Lateral Lumbar Interbody Fusion (LLIF) at L4/L5: Can Angled Instrumentation Overcome the Challenges of a High Iliac Crest?**

R. DenHaese (United States)

## Scientific Programme

**Trigger point injections in patients with low back pain**

**Interspinous surgery: by motion to fusion surgery**

**Lateral Lumbar Interbody Fusion with Lateral Modular Plate Fixation and Interspinous Process Fixation: 2-Year Outcomes**

R. DenHaese (United States)

**Biomechanical Evaluation of a Novel Lateral Lumbar Interbody Fusion (LLIF) Device Possessing Zero-Profile, Intradiscal, Integrated Fixation**

A. Gandhi (United States)

**Are predictors of outcome for Cauda Equine Syndrome (CES)? A retrospective single centre analysis of 60 patients with CES**

M. Danne (Germany)

**Histopathologic Analysis of a Porous Tantalum Interbody Fusion Device: Findings in a Human Thoracolumbar Explant**

A. Gandhi (United States)

**Chylous fistula: management of a rare complication on anterior cervical approach. Case report and literature review**

P. Granaroli (Italy)

**Lateral (LLIF) versus Anterior (ALIF) Lumbar Interbody Fusion: 2-Year Outcomes from a Prospective Multi-Center Study**

A. Gandhi (United States)

**Anterior retroperitoneal interbody fusion and percutaneous pedicular screws for L5-S1 isthmic lysis spondylolisthesis treatment: a 17 consecutive case series**

E. Colombo (Italy)

**Anterior VS Posterior C1/C2 transarticular screw fixation. Comparison of the techniques based on a literature review**

**Postoperative outcome of patients with mild cervical spondylotic myelopathy: a comparison of patients with normal and abnormal preoperative SEPs and its predictive value**

V.-M. Butenschoen (Germany)

**Radiological cauda equina compression only with no clinical Cauda Equina Syndrome (CES)**

A. Demetriades (United Kingdom)

**The treatment of pain caused by spondyloarthrosis after surgical interventions for degenerative diseases of the spine**

P. Chechulov (Russian Federation)

**Functional Assessment of Intervertebral Disc Disease With Apparent Diffusion Coefficient Maps**

E. Belykh (United States)

**C-REACTIVE PROTEIN SCREENING: A RELIABLE TEST FOR THE EARLY DETECTION OF INFECTIONS IN SPINAL SURGERY INSTRUMENTED**

M. Manucci (Italy)

**Kinematic MR Imaging in Surgical Management of Cervical Disc Disease**

D.M. Weinert (Germany)



## Scientific Programme

**Synovial cyst in lumbar spine; Contralateral approach using tubular retractor systems. Benefits and difficulties our experience with 6 cases and Review of the literature**

J.M. Torres-Campa (Spain)

**Use of anterior fusion with interlaminar cages for the treatment of L5-S1 discopathy in patients with L5 sacralization and junctional discopathy**

E. Colombo (Italy)

**Robot guided pedicular screw placement using 3D C-arm fluoroscopy for referencing**

T. Freiman (Germany)

**Nutrient Consumption And Protein Production In Degenerated Intervertebral Disc Cells Under Bone Morphogenetic Proteins' Influence**

L. Bardanova (Russian Federation)

**SPONTANEOUS REGRESSION OF THE herniated LUMBAR DISC: clinical and imaging predictors**

**Cytokine and chemokine profile changes in patients with lower segment lumbar degenerative spondylolisthesis**

J. Sutovsky (Slovakia)

**PATIENTS BELIEFS ABOUT DIAGNOSIS AND TREATMENT OF CERVICAL SPONDYLOSIS**

C. Weber (Norway)

**Degenerative multilevel stenosis. Treatment protocols and when the unconventional approaches work better**

V. Guliy (Russian Federation)

**Unilateral microsurgical approach with bilateral decompression in lumbar spinal stenosis**

M. Catana (Romania)

**INTRASPINE. Our experience in 4 years**

O. Morales Sabina (Spain)

**The feasibility of optimal surgical result prediction according to the centre of rotation shift after multilevel cervical total disc replacement**

J.H. Lee (Korea, Republic of)

**Surgery for herniated lumbar disc in daily tobacco smokers: A multicenter observational study**

M.A. Madsbu (Norway)

**Percutaneous Laser Disc Decompression (PLDD) four year follow up and implication for clinical use**

S. Rocka (Lithuania)

**Unilateral pedicle screw fixation with the use of wide-surface modular interbody cages in degenerative lumbar spine disease**

F. Longhitano (Italy)

**Impact of regional and global sagittal balance on outcomes in cervical fusion surgery**

A. Lamb (Germany)

## Scientific Programme

**Disc Herniation. Open micro-surgical or endoscopic access? What is better for the surgeon and for the patient?**

A. Margiev (Russian Federation)

**Open or minimally invasive posterior lumbar interbody fusion in degenerative lumbar spondylolisthesis**

M. Vorsic (Slovenia)

**Calcified herniated thoracic disc disappeared after drug therapy**

A. Boschi (Italy)

**Clinical outcomes between stand-alone versus cervical plate fixation with cages in single and multilevel anterior cervical discectomy and fusion: an institutional analysis of 170 patients**

J. Camara-Quintana (United States)

**Dorsal fusion as correction of craniocervical and atlantoaxial instability in patients with benign and malignant lesions using O-Arm System**

N. Mirchev (Germany)

**Multilevel "fish vertebrae" in a patient with tumor-induced osteomalacia**

D. Adam (Romania)

**Thalidomide embriopathy as possible cause of Anterior Sacral Meningocele: a case report**

M. Dalolio (Switzerland)

**Anterior stabilization of the upper cervical segments with the individual systems**

A. Shkarubo (Russian Federation)

**Incomplete atlanto-occipital assimilation associated with reducible basilar invagination causing cranio-cervical instability with medullo- and myelopathy in 64-year-old man**

M. Dalolio (Switzerland)

**Early clinical experiences with the Fiagon spinal electromagnetic navigation**

F. Seidel (Germany)

**Posterior approach for surgical repair of anterior idiopathic spinal cord herniation: A single-centre experience**

T.F. Doke (United Kingdom)

**Multilevel percutaneous vertebroplasty in the management of osteoporotic fractures, series of 20 patients**

A. Elwany (Egypt)

**Idiopathic Spinal Cord Herniation: A Case Report**

**Craniocervical junction fixation for C1 and C2 fractures: a single institution experience over 5 years**

**Surgical management of extend posttraumatic CVJ deformations and compressions**

V. Stepanenko (Russian Federation)

## Scientific Programme

### **Cervical Cerebrospinal Fluid Leakage concomitant with Thoracic Spinal Intradural Arachnoid Cyst**

S.-W. Choi (Korea, Republic of)

### **Improvement of Chiari malformation type 1 with hydrocephalus after VP Shunt Surgery-A case report**

### **OUR EXPERIENCE OF SURGICAL TREATMENT OF SYRINGOMYELIA**

A. Mamadaliev (Uzbekistan)

### **alternative fixation point in occipitocervical stabilization: occipital condyle screw. review of the literature**

M. Dibenedetto (Italy)

### **Neurophysiological Changes during Filum terminale release of Adult Tethered Cord Syndrome - case report and literature review**

S. Amarasinghe (United Kingdom)

### **Short segment posterior fixation with index level screws versus Long segment posterior fixation for thoracolumbar spine fracture: angle of correction and pain**

### **Intramedullary spinal abscess without predisposing factors diagnosed as spinal tumor**

M. Lashhab (Libyan Arab Jamahiriya)

### **Posterior only approach for En Bloc Spondylectomy of Pancoast tumors with involvement of the Spine**

### **Lumbar Dumbbell Intraextradural Lipoma In Spina Bifida Occulta**

M. Kaksi (Turkey)

### **Intradural extramedullary spinal metastasis as presenting feature of metastatic malignant melanoma - a case report**

A. Pilarski (United Kingdom)

### **Perineural cyst causing lumbar radiculopathy: a report of three cases**

R.R. Reyes (Philippines)

### **Treatment of odontoid process pathologic fracture with anterior odontoid screw fixation and vertebroplasty: technical case report**

A. Simonin (Switzerland)

### **Safety and Efficacy of Four or More Level Kyphoplasty under the Same Anesthetic**

D. Fahim (United States)

### **Is there a safer vertebral tumor thermoablation method?**

P. Elek (Hungary)

### **Surgical treatment of patients with Spinal hydatid cysts of the spine**

### **Percutaneous puncture vertebroplasty for multiple vertebral body damages**

### **Surgical management of a giant infiltrating extradural angiolioma**

I. Mavridis (Greece)

## Scientific Programme

### **Thoroscopic Assisted Resection of Dumbbell Nerve Sheath Tumors**

R. Power (Canada)

### **Aggressive hemangiomas of the spine: results of combine surgical treatment**

### **Combined spinal and mediastinal localisation of hydatidosis is very rare even in endemic areas: (a case report)**

S. Fahmy (Egypt)

### **Results of surgical treatment of tumors of cranio-cervical junction**

I. Pendyurin (Russian Federation)

### **Lumbar Intradural Schwannomas**

### **Surgical outcome of Intradural Extramedullary Spinal Cord Tumors: Analysis of 51 cases**

### **Spinal Melanotic Schwannoma**

C.H. Carvalho (Germany)

### **A Novel Application of Chimney Sublaminar Decompression for Total Resection of A Spinal Myxopapillary Ependymoma**

S. Sharma (United States)

### **Spinal epidural metastasis from Ewing sarcoma of the acetabular zone**

G. Scalia (Italy)

### **Haemorrhagic conus-cauda paraganglioma with brain metastasis: an uncommon presentation and unusual course. Case report**

M. Manucci (Italy)

### **Hidden Metastasis in Patients with Chronic Viral Hepatitis as a Cause of Sciatic Pain; Pitfalls in Diagnosis and Management with illustrated cases**

M. Taha (Egypt)

### **Extramedullary hematopoiesis with spinal cord compression case presentation & review of literature**

B. Muhsen (Jordan)

### **Cervical intra medullary spinal cord abscess, rare entity**

R. Kouadria (Algeria)

### **The CT-based fractal analysis may help in detecting decreased quality of bone prior to urgent spinal procedures**

M. Czyz (United Kingdom)

### **OUTCOMES OF HIGH GRADE OLIGOASTROCYTOMAS**

V. Kliuchka (Ukraine)

### **Surgery for recurrent high grade glioma: The dilemma of debate**

W. Zakaria (Egypt)

### **Image-guided surgery for periventricular high-grade gliomas**

A. Rozumenko (Ukraine)

## Scientific Programme

**Clinical evaluation of continuous intrathecal or intracavitary administration of sodium butyrate for patients with recurrent and progressive malignant glioma**

H. Nakagawa (Japan)

**Management of intrinsic brain stem lesions in a developing country: difficulties and pitfalls**

**Preserving executive functions in frontal lobe lower grade glioma surgery: an intraoperative tool**

T. Sciortino (Italy)

**A practical prognostic index to predict extent of resection and neurological outcome for gliomas in sensory-motor area**

**A novel coaxial 3D bioprinted, self-assembled cell fiber as in vitro cerebral glioma model**

**FLUORESCENCE-GUIDED RESECTION OF GLIOMA WITH CHLORINE E6 - "PHOTODITAZIN"**

A. Rynda (Russian Federation)

**Compliance with PRO assessments in glioma patients in an observational study: factors associated with participation and drop out in an outpatient setting**

M. Renovanz (Germany)

**Glioblastoma unique features drive the research methods to overcome the two causes of resistance and find novel effective therapies in the trunk-branch era**

E. Brognaro (Italy)

**Results of the Lifelong follow-up of 29 Patients Diagnosed with Glioblastoma Multiforme**

**Surgical anatomy of the insular region**

A. Bykanov (Russian Federation)

**Major Complication, Reoperation, Readmission, and Death after Craniotomy for Primary Malignant Brain Tumors: A National Surgical Quality Improvement Program Analysis**

J.T. Senders (Netherlands)

**Distinctions of response assessment in complex therapy of glioblastoma patients**

**Study of Genetic and Epigenetic Markers in relation to tumor phenotype and clinical outcomes in Egyptian Gliomas**

H. Abdallah (Egypt)

**Fluorescein-guided surgery: our results in glioma surgery**

G. Ricci (Italy)

**Mistakes in differential diagnosis of glial tumors**

A. Simonyan (Russian Federation)

**The Accuracy of 3Tesla MR Spectroscopy in Assessing Brain Glioma Histopathology**

B. Splavski (Croatia)

## Scientific Programme

**Controversion of Comorbid Pathology: Astrocytoma of the cerebellum and Epilepsy**

**Microsurgical treatment of symptomatic non-hydrocephalic pineal cysts**

I.T. Abramov (Russian Federation)

**Multiple High-Grade Gliomas: Prevalence, Characteristics, Treatment and Outcome. A Systematic Review and Meta-Analysis**

D.T. Di Carlo (Italy)

**Atypical extraventricular neurocytoma, IDH-1 mutant and 1p/19q codeleted located in an eloquent brain area in a patient previously diagnosed with an astrocytoma**

X. Santander (Spain)

**Re-irradiation stereotactic radiosurgery of early recurrences of gliomas**

E. Sivov (Russian Federation)

**Clinical characterstics and outcomes of Primary Gliosarcoma: a 12 year institutional experience from Pakistan**

M.F. Khan (Pakistan)

**Evaluating patient-oriented outcome measures in brain tumor patients within and across clinical trials: protocol for a systematic review**

**Patient-oriented outcomes in cerebral gliomas: a systematic review**

**Rebleeding after 18 years of a haemorrhagic pilocytic astrocytoma: prognostic implications of conservative treatment. Case report and literature review**

A. Pagano (Italy)

**Frequency of neurocognitive vs neurological deficits in a large series of newly diagnosed supratentorial gliomas**

E. Liouta (Greece)

**Leukoencephalopathy, cerebral calcifications and cysts: A case report**

S. Tavares (Portugal)

**Awake craniotomy from patient's perspective**

R.M. Krzyżewski (Poland)

**Brief or deep? On the use of different measures to assess pretreatment neuropsychological status in primary brain tumor patients**

M. Ciavarro (Italy)

**Smoking and adverse events in cranial tumor surgery**

J. Sarnthein (Switzerland)

**5-YEAR SURVIVAL OF THE PATIENTS WITH GRADE4 BRAIN GLIOMAS**

I. Blumenau (Russian Federation)

**STUDY OF REGARDING HISTOLOGICAL FEATURES OF THE BRAIN TUMORS**

A. Mamadaliev (Uzbekistan)

**STUDY OF EPIDEMIOLOGICAL FEATURES OF THE BRAIN TUMORS IN THE SOUTH REGION OF THE REPUBLIC OF UZBEKISTAN**

S. Mamadalieva (Uzbekistan)

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**Ultrasound Guided Resection of Brain Gliomas - Analysis of Real-Time Images in Comparison with Standard Neuronavigation**

D. Mahoney (United Kingdom)

**The phylogenesis of the human brain: a key to understand glioma tumor spread and natural history**

A. D'Elia (Italy)

**Is there a link between clinical presentation and prognosis in glioblastoma?**

C. Noronha (Portugal)

**Pontine Glioma - A Challenging Case**

I. Reis (Portugal)

**Charlston Comorbidity Index (CCI) as an additional prognostic factor for glioblastoma patients**

M. Barz (Germany)

**One year of tumor treating fields in Austria: First report on clinical experiences**

D. Pinggera (Austria)

**Cortical dysplasia anticipating rapidly growing multicentric glioblastoma: misdiagnosis or pre-neoplastic lesion?**

S. Di Gregorio (Italy)

**Glioblastoma and its Relationship with the Subventricular Zone - A Multicenter Retrospective Study**

**Infratentorial localization of acanthamoeba spp infection: focusing on differential diagnosis against primary cerebellar tumor**

F. Iacoangeli (Italy)

**Human U87 glioblastoma cells with stemness features display enhanced sensitivity to natural killer cell cytotoxicity through altered expression of NKG2D ligand**

**Hyperthermia increases temozolomide induced cell death in MGMT-umethylated human glioblastoma specimens in vitro**

M. Stein (Germany)

**Advantages and Disappointments of low grade glioma's awake surgery**

G. Kobyakov (Russian Federation)

**Combined use of positron emission tomography and fluorescence microscopy in the intra-operative differentiation of disease progression from radiation necrosis in recurrent glioblastoma: a feasibility study**

E.W. Dyson (United Kingdom)

**Association of preoperative levels of selected blood inflammatory markers with prognosis in gliomas**

N. Ashirov (Kazakhstan)

**Impact of CSF shunting on performance status and survival in patients with hydrocephalus due to leptomeningeal metastasis**

N. Hayashi (Japan)

## Scientific Programme

**Congenital cranial teratomas: clinical study with 4 cases**

M. Efendioglu (Turkey)

**Follicular thyroid carcinoma brain metastases: 2 cases report and review of the literature**

R. Uriel Lavín (Spain)

**Combined treatment of metastatic brain tumors**

G. Chmutin (Russian Federation)

**Occipital bone osteoma: case report**

C. Temiz (Turkey)

**Incidental pericallosal lipoma**

**Surgical treatment of posterior fossa metastases**

**A DELAYED TENTORIAL ANGIOMATOUS LESION AFTER RADIATION THERAPY FOR PILOCITYC ASTROCYTOMA: CASE REPORT**

**Surgical treatment aspects and problems of HIV-associated central nervous system complications**

R. Biktimirov (Russian Federation)

**Spectrum of malignancies in patients with neurofibromatosis: experience from the first Greek NF-center**

D. Giakoumettis (Greece)

**Imaging characteristics of surgically treated brain metastases**

J. Kerschbaumer (Austria)

**Post-traumatic subacute sub-dural hematoma: presentation of diploic and dural prostatic metastasis**

L. Lippa (Italy)

**5-aminolevulinic acid (5-ALA) fluorescence in microsurgical management of intracerebral metastases: a single-institution retrospective analysis**

F. Certo (Italy)

**Surgical treatment of brain metastasis under local anaesthesia: clinical impact, efficacy and safety**

P. D'Auria (Italy)

**Skull base angiomatous leiomyoma: A case report and review of literature**

W. Selbi (United Kingdom)

**A rare case of cerebral metastasis from malignant peripheral nerve sheath tumor**

N. Velinov (Bulgaria)

**PRIMARY CENTRAL NERVOUS SYSTEM B-CELL LYMPHOMA**

N. Velinov (Bulgaria)

**Diffusion Tensor Imaging in Neurosurgery**

A. Hana (Luxembourg)



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**Endoscopic endonasal surgery of skull base tumors with cranial nerve monitoring**

I. Chernov (Russian Federation)

**Clinical Feasibility Of A Wearable Mixed Reality Device In Neurosurgery**

F. Incekara (Netherlands)

**Practical application of intraoperative tractography on awake brain surgery**

**Capabilities of MRI-spectroscopy for differential diagnosis of focal lesions of the brain**

A. Zgurov (Ukraine)

**Preoperative planning based on repetitive navigated transcranial magnetic stimulation (nTMS) improves surgical treatment of language-eloquent brain tumors**

G. Raffa (Italy)

**Using templates for the identification of language related areas in tumor patients based on resting state fmri**

C. Ott (Germany)

**Awake craniotomy for supratentorial brain tumors: a single center experience**

J. Monteiro (Portugal)

**New Applications of 3D Tractography Maps for Trajectory Planning in Subcortical Surgery**

S. Koga (United States)

**Vascular physiology of CO<sub>2</sub>: impact on cerebrovascular reactivity and neurovascular coupling**

C.H.B. van Niftrik (Switzerland)

**Intraoperative ultrasound in cranial neurosurgery: pitfalls and solutions**

A. Šteňo (Slovakia)

**Safety and effectiveness of intraoperative Computed Tomography (i-CT) in brain tumor surgery: single center experience in 74 patients**

G. Barbagallo (Italy)

**i-CT plus i-US plus 5-ALA fluorescence in brain tumors: overtreatment or combination of useful tools?**

F. Certo (Italy)

**The combined role of quantitative neuroimaging and qualitative biomolecular pattern as predicting factors for entity of resection in glioblastomas**

M. Iacoangeli (Italy)

**Use of ultrasound aspirator tip for mono- & bipolar N. VII stimulation in vestibular schwannoma resection**

K. Vanchaze (Belgium)

**Optimization of intraoperative MEP/SSEP recordings by localisation of stimulation points with preoperative MRI-navigation and nTMS**

H. Colle (Belgium)

## Scientific Programme

**Use of a novel global evoked naming test during subcortical stimulation**

D. Colle (Belgium)

**Use of MRI-based 3D-print for tridimensional cortical representation**

D. Colle (Belgium)

**Millimetric Augmented Reality Intraoperative Registration using Signature Vessels: A Technical Report**

I. Cabrilo (Switzerland)

**Preoperative planning, simulation of cranial approaches and operative perspective in intracranial aneurysm surgery using OsiriX software. Results in 25 cases**

T. Spiriev (Bulgaria)

**Are We Under-Treating Pineal Parenchymal Tumor of Intermediate Grade? A Single Center 10 Year Experience**

C. McNevin (Ireland)

**Long-term results of treatment with high-dose methotrexate for primary central nervous system malignant lymphoma**

T. Yamaguchi (Japan)

**LONG-TERM RESULTS OF CLINICAL TRIALS LASER PHOTODYNAMIC THERAPY BASED ON LOCOREGIONAL INTRODUCTION OF PHOTSENS IN PATIENTS WITH INTRACEREBRAL BRAIN TUMORS IN THE EARLY POSTOPERATIVE PERIOD**

**TREATMENT OF PINEAL PARENCHYMAL TUMORS OF INTERMEDIATE DIFFERENTIATION- SINGLE CENTER EXPERIENCES**

R. Ilic (Serbia)

**Tumoral and stromal expression of epithelial to mesenchymal transition-related factors in brain metastasis**

M. Nagaishi (Japan)

**The effects of thrombomodulin and activated protein C on the pathogenesis of multiple sclerosis**

N. Isik (Turkey)

**Compare serum and tissue miRNA level associated with autophagy in the patient who has glial tumor or metastatic tumor except lymphoma**

M. Nazik (Turkey)

**ANALYSIS OF AUTOPHAGY POLYMORPHISMS IN GLIOBLASTOMAS**

C.A. Rodríguez Arias (Spain)

**STUDY OF THE EXPRESSION OF AUTOPHAGY PROTEINS IN GLIOBLASTOMA MULTIFORME**

C.A. Rodríguez Arias (Spain)

**MicroRNA Profiling as a survival predictor and revealing it's part in malignancy level determination in patients with supratentorial gliomas of brain**

E. Stupak (Russian Federation)

**Analysis of lncRNAs and mRNAs using RNA sequencing in glioblastoma**

S. Reguli (Czech Republic)

## Scientific Programme

**NG2 expression in glial tumors after recurrence**

D. Gulyaev (Russian Federation)

**Targeting membrane-bound 70-kDa heat shock protein (Hsp70) in diagnostics and therapy of malignant brain tumors**

M. Shevtsov (Germany)

**Ras-association domain family 3 functions as a tumor suppressor via p53 in glioblastoma**

T. Kudo (Japan)

**Limits of immunohistochemistry in detection of IDH1 mutations in low grade gliomas**

R. Jancalek (Czech Republic)

**Atypical pituitary adenomas**

**Evolution of the Choroid Plexus as a Portal to Homeostasis**

A. Kunz (United States)

**Near-Infrared Photoimmunotherapy targeting EGFR in Glioblastoma**

W. Szopa (Poland)

**Postsurgical Molecular Tumor Analysis and Liquid Biopsy: A Pilot Study Analyzing Cell-Free Tumor DNA in Primary Central Nervous System Lymphoma (PCNSL)**

A.-K. Hickmann (Switzerland)

**New insights in CNS tumors molecular biology: calcium-dependent pathways and proliferation**

A. Prior (Italy)

**Evaluating Surgical Outcome of Intracranial Meningioma by Simple Tumor Localization Scale**

B. Splavski (Croatia)

**Brain Tumor Interface Dissection Technique with Surgical Blade from Laboratory to Neurosurgical Operating Room**

S.K.R. Rai (India)

**Factors predicting the occurrence and outcome of epilepsy after meningioma resection**

**Surgical outcome of meningiomas involving primary motor cortex with reference to motor function and seizure control**

J.-H. Hwang (Korea, Republic of)

**Cystic meningiomas: radiological-pathological correlation**

R. Carrasco Moro (Spain)

**A rare case of metastatic intracranial solitary fibrous tumour**

X. You (Malaysia)

**Results and outcomes of surgical treatment of huge and giant skull-base meningiomas**

R. Biktimirov (Russian Federation)

**Intracranial - extracranial meningioma: a case report**

M. Samardzic (Serbia)

## Scientific Programme

**Natural history of Incidental Meningiomas - a Prospective study**

M. Behbahani (Norway)

**Neurosurgical management of posterior cranial fossa meningiomas: our experience in 120 consecutive operated cases**

M. Gorgan (Romania)

**Meningioma mimicking a chronic subdural hematoma**

A. Alfieri (Switzerland)

**Surgical Strategy for Meningiomas of Clivus and Posterior Petrous Bone**

O. Voznyak (Ukraine)

**Unilateral versus bilateral surgical approach in olfactory groove meningiomas**

V. Cuibotaru (Romania)

**Utility of Microwave Ablation in Brain Tumor Surgery: Preliminary Report of Twenty Two cases**

A. Santana Ramírez (Mexico)

**Cerebello-pontine Angle Eosinophilic granuloma; Report of a Rare Case and A Reappraisal in the Management of Intracranial Eosinophilic Granuloma in Adults**

N. Derakhshan (Iran, Islamic Republic of)

**Supplementary motor area syndrome: case report**

C. Cotúa Quintero (Spain)

**ANTERIOR BASAL MENINGIOMAS ARE DIFFERENT APPROACHES MAKING A DIFFERENCE? personal experience Ahmed Adnan, Ishaq Ghanem, Anjam Rawandozy, mohamed N. khasro**

A. Adnan (Iraq)

**Meningiomas: Brain invasion as a marker for classification**

G. Sokratous (United Kingdom)

**Meningioma-associated aseptic leptomeningitis in a patient with rheumatoid arthritis**

S.Y. Yang (Korea, Republic of)

**Utility of transoral and transsphenoidal approach for petroclival and clival tumours**

M.F. Fraioli (Italy)

**A review of the clinical results in the management of malignant meningiomas**

J. Santiago (Portugal)

**Meningiomas Invading the Superior Sagittal Sinus: Surgical Experience in 339 Cases at an Italian Tertiary Referral Center**

C. Caggiano (Italy)

**SURGICAL MANAGEMENT OF ANTERIOR AND LATERAL FORAMEN MAGNUM MENINGIOMAS: TECHNICAL ASPECTS AND RESULTS OF A 19-CASE SERIES**

## Scientific Programme

### **ANTERIOR PETROSECTOMY COMBINED TO PARTIAL POSTERIOR PETROSECTOMY. AN ANATOMICAL STUDY**

B. Boido (Italy)

### **Microsurgical resectability, outcomes and complications of skull base meningiomas according to location**

N. Paidakakos (Italy)

### **Optic nerve decompression in treatment of meningiomas involving optic canal**

L. Pimenova (Russian Federation)

### **Abrupt Regression of multiples meningiomas after discontinuation of Cyproterone acetate (CPA) Treatment : A case report and literature review**

C. Eddy (Switzerland)

### **Evaluation of expression of selected hypoxia-inducible markers in intracranial meningiomas**

R. Rola (Poland)

### **PARASAGITTAL MENINGIOMAS AND RECONSTRUCTION OF THE SUPERIOR SAGITTAL SINUS**

H. Di Vitantonio (Italy)

### **Meningeal solitary fibrous tumor: report of three cases and literature review**

R. Malcata Nogueira (Portugal)

### **Foramen Magnum Meningiomas: A review of 13 patients**

M. Zaimoğlu (Turkey)

### **Fractal analysis of MRI images helps in preoperative identification of atypical meningiomas**

M. Czyz (United Kingdom)

### **Clinical outcome of Gammaknife radiosurgery for large-volume (>10cc) intracranial meningiomas in the elderly patients**

S. Jung (Korea, Republic of)

### **The outcome and prognosis of malignant meningiomas in our faculty**

S. Kaneko (Japan)

### **Surgery for meningioma in the elderly patients: prognosis according to geriatric scoring system of meningioma**

T.-W. Song (Korea, Republic of)

### **Pattern and Outcome of Surgery for skull base tumors in Abuja ,Nigeria : Five years retrospective review**

U. Ugochukwu Charles (Nigeria)

### **Signs and Symptoms of Acoustic Neuroma at Initial Presentation: An Exploratory Analysis**

R. Foley (Ireland)

### **An alternative skin incision and muscle flap for the retro-sigmoid keyhole approach (Technical note)**

## Scientific Programme

**Operative strategies for sparing the inner ear structures during the vestibular schwannoma resection through the retrosigmoid approach**

N. Alshafai (Canada)

**The possibility of neurorehabilitation after removal of the vestibular schwannomas**

**contralateral hearing loss following surgery for vestibular schwannoma**

S. Ariyan Sanjeev (India)

**Surgical management of vestibular schwannoma: attempted preservation of hearing and facial function**

A. Matter (Egypt)

**Transsphenoidal endoscopic surgery of trigeminal schwannomas**

**Proactive surgery in NF2: focus on the hearing importance**

**Experience of the big and giant acoustic schwannomas surgery**

V. Fedirko (Ukraine)

**Outcomes of facial nerve function after total removal of vestibular schwannomas depended on topography of the tumor**

**Large vestibular schwannomas: Is stereotactic radiosurgery effective enough?**

D. Stastna (Czech Republic)

**Visual Outcome of Surgically Managed Pituitary adenomas Followed-up at the Yaoundé Central Hospital**

V.A. Njami Ngakui (Cameroon)

**Our experience with infratentorial supracerebellar ( ITSC ) approach for pineal region tumor excision**

G. Sharma (Nepal)

**Endoscopic transsphenoidal surgery of microprolactinomas: A reappraisal of cure rate based on radiological criteria**

A. Micko (Austria)

**Narrow band imaging in giant pituitary adenoma surgery**

M. Del Bene (Italy)

**Aggressive pituitary adenomas: clinical series and management options**

F.F. Angileri (Italy)

**Use of cyanoacrylate glue for repair dural tear and post operative CSF fistula**

A. Santana Ramírez (Mexico)

**Endoscopic transsphenoidal approach for pituitary adenomas invading the cavernous sinus: 97 consecutive cases**

**TSH-secreting pituitary adenomas: clinical and morphological characteristics and outcomes of surgical treatment**

L. Astafyeva (Russian Federation)

**Damage to the ICA during endoscopic endonasal transsphenoidal surgery**

## Scientific Programme

**Endoscopic transsphenoidal approach for hormone-secreting pituitary adenomas invading the cavernous sinus**

**Nasal liquorrhea after primary treatment of giant prolactinomas using dopamine agonists**

L. Astafieva (Russian Federation)

**Cavernous Sinus Invasion in Knosp Grade 3 and 4 Pituitary Macroadenomas**

A. Micko (Austria)

**Incidental cerebral aneurysm in patients with GH adenomas, a complex therapeutical management**

M. Zoli (Italy)

**Comparison between microscopic and endoscopic surgical results in patients with secreting pituitary adenomas**

D. Popov (Bulgaria)

**Epileptic seizures with large and giant prolactinomas**

Y. Sidneva (Russian Federation)

**Controversies in management of sellar teratoid/rhabdoid (AT/RT) tumors: report of two cases mimicking pituitary adenomas and review of literature**

R.V. Abbritti (Italy)

**GH-secreting pituitary adenomas: therapeutic strategies predictive factors and outcome**

V.G. Ciubotaru (Romania)

**Prolactinoma. Is there a place for surgery?**

A. Huk (Ukraine)

**Plurihormonal ACTH-GH pituitary adenoma: an extremely rare entity**

E. Roca (Italy)

**Persisting Embryonal Infundibular Recess (PEIR): two case reports and literature review**

F. Belotti (Italy)

**Multidisciplinary management of non adenomatous sellar lesions: retrospective analysis of 10 years experience of a portuguese center**

L. Dias (Portugal)

**Surgical Treatment of Pituitary Tumours**

R. Jha (Nepal)

**A rare case of primary diffuse non Hodgkin´s lymphoma in sphenoid sinus presenting as third nerve palsy**

**Surgical outcome of pure endoscopic transsphenoidal surgery; report of 12 cases**

**4K endoscopy in pituitary tumors**

A. Prior (Italy)

## Scientific Programme

**First Experience with a new 4mm real 3D/HD-Endoscope for Transnasal Endoscopic Surgery: A Laboratory and Clinical Investigation**

A.-K. Hickmann (Switzerland)

**Preservation of visual acuity by neurosurgical - ophthalmological cooperation: case report of a large cystic craniopharyngioma**

S. Antal (Austria)

**The first 65 craniopharyngiomas operated in France (1921-1973): surgery approach, removal degree and outcome**

**The infundibulo-tuberal syndrome present preoperatively: a marker of hypothalamic injury that must be actively identified**

I. Castro-Dufourny (Spain)

**Are we treating all the complications of craniopharyngiomas surgery? The effect of dulaglutide in a case of hypothalamic obesity**

I. Castro-Dufourny (Spain)

**Prognostic Factors and Survival Outcomes in Patients with Chordoma in the United States: A Population-Based Analysis**

D. Fahim (United States)

**Possibility, reasonability and controversy of radical removing of adult craniopharyngiomas**

M. Kutin (Russian Federation)

**Extended endoscopic transphenoidal surgery for suprasellar craniopharyngiomas**

P. Kalinin (Russian Federation)

**RARE CASE OF DIENTEPHALIC CACHEXIA IN ADULT WOMAN WITH CRANIOPHARYNGIOMA**

L. Astafyeva (Russian Federation)

**Treatment of Craniopharyngiomas in adult and children: different surgical approaches, outcome and multimodal treatment of recurrences**

**Sleep and wake and temperature rhythm modifications after endoscopic endonasal resection of third ventricle craniopharyngiomas**

M. Zoli (Italy)

**Surgical treatment for the tumors of the IIIrd ventricle region**

**Structure of epileptic seizures in patients with craniopharyngiomas**

Y. Sidneva (Russian Federation)

**Surgical Strategy for Craniopharyngiomas by Neuroendoscopic Surgery**

H. Oka (Japan)

**Extended endoscopic endonasal approach in craniopharyngiomas**

D. Locatelli (Italy)

**Craniopharyngioma in adults: surgery, adjuvant therapies, postoperative quality of life**

A. Pagano (Italy)



## Scientific Programme

**Gamma Knife Radiosurgery for Craniopharyngioma. Results on 55-treated patients followed-up for at least 12 months**

P.P. Berti (Italy)

**Endo-microsurgical transcallosal and translamina terminalis approaches for third ventricle craniopharyngiomas**

L.G.M. di Somma (Italy)

**Stereotactic Treatment of Craniopharyngiomas - A Retrospect of 50 years**

E.-O. Backlund (Sweden)

**Prevention of CSF- related Complications after Intradural Spinal Tumor Surgery by an Autologous Fat Graft**

M. Kovacevic (Croatia)

**It's time to reduce free-hand manipulation: a new PMMA intraoperative cranioplasty technique**

F. Guerrini (Italy)

**Patient-Specific Reconstruction Utilizing Computer Assisted 3D Modelling for Partial Bone Flap Defect in Hybrid Cranioplasty**

P.H. Low (Malaysia)

**Robotic-guided biopsy of deep-seated cerebral lesions: A technical note and review of 14 cases**

W. Selbi (United Kingdom)

**Microsurgical Anatomy of the Posterior Wall of the Cavernous Sinus**

A. Boschi (Italy)

**Measuring the degree of pneumocephalus to predict post-endoscopic skull base surgery CSF leak: a retrospective study**

C. de Laurentis (Italy)

**Tonsillary Herniation Following Lumboperitoneal Shunt**

M. Senol (Turkey)

**Patient specific implants created by three-dimensional printing**

**Combined occipital transtentorial and midline suboccipital approach for vascular rich cerebellar vermian pathologies**

Y. Seo (Japan)

**Transpetrosal presigmoid approach for solving the posterior fossa tumors**

N. Stojanovic (Serbia)

**Single-step resection and reconstruction with PEEK custom made prostheses for intraosseous meningioma**

A. Pompucci (Italy)

**Usefulness of skull-mounted frameless image-guided stereotactic brain biopsy under electromagnetic surgical navigation system**

K. Kamada (Japan)

**Role of temporal bone bloc-resection in treatment of patients with extended head and neck paragangliomas**

D. Gulyaev (Russian Federation)

## Scientific Programme

**Efficacy and controversy of autologous materials use in post-op. skull base reconstruction in transsphenoidal endoscopic skull-base surgery**

M. Kutin (Russian Federation)

**Combined craniofacial approaches in the structure of surgical treatment of the anterior skull base malignances**

D. Gulyaev (Russian Federation)

**Approach to pineal region tumors- A personal experience**

**Quality of life and affective disorders in skull base surgery: A comparison between endonasal and open transcranial approaches**

F. Bruckbauer (Germany)

**Infratentorial supracerebellar approach to the Colloid Cysts of the Third Ventricle**

M. Shkarubo (Russian Federation)

**Fronto-orbitozygomatic approach: functional and cosmetic outcomes in a series of 169 patients**

A. Spina (Italy)

**Anatomical study of the transclival approach with a particular focus on the intracranial segments of the VI cranial nerve and its "blind angles"**

R.V. Abbritti (Italy)

**Safety outcomes associated with hospital discharge within 24 hours of awake-craniotomy for brain tumor resection in a comprehensive cancer setting**

A. Etame (United States)

**Complications at endoscopic transcortical approaches to the lateral and third ventricles**

D. Teslenko (Ukraine)

**Modular classification of endoscopic endonasal transsphenoidal approaches: anatomical validation study**

F. Belotti (Italy)

**DURAL REPAIR USING AUTOLOGOUS FAT: OUR TECHNIQUE AND REVIEW OF THE LITERATURE**

D. De Paulis (Italy)

**Virtual craniotomy planning and workflow for elective single-staged PEEK cranioplasty for skull infiltrating pathologies: the ELESC-1 study**

**Is apolipoprotein E a prognostic factor in traumatic brain injury?**

K. Vlachos (Greece)

**Exploration of the significance of interleukin-8 in neurosurgical patients**

K. Vlachos (Greece)

**Cranial tumors: Review of cases operated in 7 years**

L. Santos Cardoso (Portugal)

**Efficacy and Safety of Using N-Butyl Cyanoacrylate in Fixation of Cranial Following Trauma and Other Pathologies**

## Scientific Programme

**The risk factor of blunt cerebrovascular injury in patients with cervical spine injury: the SIMC experience**

R. Tsuchiya (Japan)

**Contribution of Neural Elements to Thoracic Stability**

F.E. Deniz (Turkey)

**Simulating different surgical corridors to skull base tumors: a novel patient-specific method based on 3D-modelling technology and intraoperative validation**

F. Nicolosi (Italy)

**CONSERVATIVE MANAGEMENT OF A LATE OVERDRAINAGE COMPLICATION AFTER ARACHNOID CYST SHUNTING**

M. Blagia (Italy)

**The Surgical Planning In Endoscopic Surgery Of Ventricular Colloid Cysts: Tips And Tricks Learned From Experience In Twentysix Cases**

D. Catapano (Italy)

**3D computational technology in cranial neurosurgery**

**Vertebral percutaneous augmentation techniques: A 133 cases experience**

S. Tavares (Portugal)

**Postoperative craniovertebral junction instability following resection of lower clival and upper cervical chordomas**

M. Labidi (France)

**Complications of Decompressive Craniectomy In Patients With Traumatic Brain Injury. A prospective Analysis**

S. Bashir (Pakistan)

**The “Chopsticks Technique” in Endoscopic Endonasal Surgery**

M. Labidi (France)

**VAGUS NERVE STIMULATION AS A NEUROPROTECTIVE ADJUNCT IN ACUTE ISCHAEMIC AND TRAUMATIC BRAIN INJURIES: A PERSPECTIVE**

C. Tolias (United Kingdom)

**Eyebrow incision and supraorbital craniotomy: A minimal invasive skull base approach**

F. Yakar (Turkey)

**Preventable Diagnostic Errors in Fatal Cervical Spine Injuries: A Nationwide Register-Based Study from 1987 to 2010**

T. Thesleff (Finland)

**Identifying the determinants of Spinal Injury as a result of car accidents. An approach towards prevention of Spinal injuries**

M.U. Anwar (Pakistan)

**Endoscopically assisted eyelid lateral orbitotomy approach for middle and anterior cranial fossa pathologies. Prospective clinical study**

L. Laleva (Bulgaria)

## Scientific Programme

**Double layer polypropylene patch dural substitute during decompressive craniectomy as adhesion preventive material for further cranioplasty**

M. Nagar (India)

**Pure endoscopic lateral orbitotomy approach - Intra- and extradural limitations. Anatomic study**

T. Spiriev (Bulgaria)

**TAILORING RECONSTRUCTION TECHNIQUES IN ENDOSCOPIC TRANSSHENOIDAL SURGERY. A NOVEL ALGORITHM**

A.M. Sicignano (Italy)

**Clinical use of S100 B protein serum measurement in traumatic brain injury**

R. Skarica (Croatia)

**The role of soft tissue dissection and temporalis muscle positioning in orbitozygomatic approaches: a quantitative cadaveric study**

**Occult discoligamentous lesions of the subaxial c-spine on MRI imaging in elderly trauma patients with degenerative cervical spondylosis - a case series of 5 patients**

I. Janssen (Germany)

**The orbitozygomatic approach: a systematic review of anatomical quantitative studies**

**Traumatic occipito-cervical dislocation without neurological deficit and cardio-respiratory symptoms**

P. Anania (Italy)

**Traumatic brain injury and myogenic dysfunction of cerebral arteries**

N. Szarka (Hungary)

**Additive manufacturing in neurosurgery**

N. Gabrovsky (Bulgaria)

**A single center experience on surgical treatment of chronic subdural hematoma: a classification and regression tree approach of neurological outcome**

A. Rovlias (Greece)

**3D printing for making Titanium composite implants in reconstructive neurosurgery**

A. Kravchuk (Russian Federation)

**Improvement of cognitive functions in patients with acquired defects of the skull in the early postoperative period after cranioplasty**

E. Sinbukhova (Russian Federation)

**Surgical decision-making in traumatic cervical spine injuries: a single centre experience**

C. Atabey (Turkey)

**The effect of pre-operative skin preparation and post-operative superficial closure on post-cranioplasty infection rates**

## Scientific Programme

**The value of repetitive CT perfusion for detection of cerebral vasospasm-related hypoperfusion after aneurysmal subarachnoid hemorrhage**

S. Vulcu (Switzerland)

**Risk factors and surgical treatment results in elderly patients with severe traumatic brain injury (TBI)**

O. Nikitin (Russian Federation)

**PENETRATING INJURY FROM A WIRE: CASE REPORT**

A. Zigouris (Greece)

**Role of Hypertonic Sodium Lactate in Traumatic Brain Injury Management**

M.R. Arifianto (Indonesia)

**Messages of auditing 5 years of TBI management in a County Hospital of Hungary**

Z. Kopniczky (Hungary)

**Management and outcome of moderate head trauma: Our experience**

W. Zakaria (Egypt)

**Crossed Leg Sign (CLS) as a favorable consciousness prognostic outcome indicator after severe stroke and vegetative state**

A. Verlicchi (Italy)

**DIFFERENT COMBINATIONS OF PLASTIC MATERIALS FOR THE TREATMENT OF BASAL LIQUORRHEA IN PATIENTS WITH CRANIOFACIAL INJURIES**

G. Shahinian (Russian Federation)

**Management of war-related ballistic craniocerebral injuries in a French role 3 hospital during the Afghan campaign**

**MD PhD neurosurgery**

**Validity of diffusion weighted imaging in the diagnosis of postoperative intracranial infections**

N. Hofmann (Germany)

**A Survey on the Adherence of European Neurosurgical Centers to 2016 AANS Guidelines on Severe TBI**

A. Germanò (Italy)

**Depressed and Open Skull Fractures Over the Superior Sagittal Sinus. Illustrative Cases and Review of the Literature**

C. Gatos (Greece)

**New parameter in prediction and early detection of refractory intracranial hypertension**

**Illustrative Cases and Literature Review of Bone Resorption after Autologous Bone Cranioplasty**

C. Gatos (Greece)

**Assessment of cranial defects after craniectomy: a proposal for classification**

M. Simon (Germany)

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**Chronic subdural hematoma: a comparative study between one single burr hole with irrigation or no irrigation, mini craniotomy and conservative treatment**

G. Fotakopoulos (Greece)

**FTY720 Reduces Neurological Deficits Following TBI by Inducing Autophagy and Modulating Microglia Polarization in Mice**

**Cognitive Outcomes of Patients with Traumatic Bifrontal Contusions**

G. Wong (Hong Kong)

**Therapeutical consequences assessed by a proposed grading system of cranial defects after craniectomy**

M. Simon (Germany)

**RESEARH OF ESSENTIAL ELEMENTS COMPOSITION IN THE BIOLOGICAL MEDIA IN PATIENTS WITH OUTCOMES OF TRAUMATIC BRAIN INJURY**

M. Aliev (Uzbekistan)

**Extreme-frequency therapy in acute period of traumatic brain injury**

**Temporal trends in cost-effectiveness and outcome of intensive care for traumatic brain injury**

R. Raj (Finland)

**Brainstem Death Secondary to Hemorrhage from Eclampsia**

S.E. Mba (Zimbabwe)

**A Case of Acute Severe Transient Thrombocytopenia Immediately after Cranioplasty using an Artificial Dura Mater**

Y.-N. Chung (Korea, Republic of)

**The use of individualised titanium cranial implants in the reconstructive neurosurgery in patients after head injury - personalised reconstructive neurosurgery**

B. Kolarovszki (Slovakia)

**Surgical experience of endoscopic treatment of third ventricle arachnoid cysts in children**

B. Jamal (Pakistan)

**The management and outcome for patients with chronic subdural hematoma**

U. Ulasavets (Canada)

**Approach of General Surgeons towards patients presented with traumatic brain injury. A critical analysis on the use of Computed Tomography Head in Emergency department**

**Traumatic Intracerebellar Hematoma, Criteria for Surgical Management. a case report**

S.E. Mba (Zimbabwe)

**Evaluating the safe use Haloperidol in patients presented with Acute Traumatic Brain Injury**

S.S.A. Zaidi (Pakistan)

**Giant Hydrocephalus: An Exceptional Case**

M. Senol (Turkey)

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**Post-traumatic pneumocephalus treated with two different techniques**

A. Pompucci (Italy)

**Clinical evaluation of a microwave-based device for detection of traumatic intracranial hemorrhage**

J. Ljungqvist (Sweden)

**Cerebral bridging vein micro-structure studied by second harmonic generation microscopy - data to simulate acute subdural hematoma**

G.U. Musigazi (Belgium)

**Clinical Studies of the Utility of Blood-based Protein Biomarker as Diagnostic Signatures for Traumatic Brain Injury**

**ventricular-subarachnoid stenting in low-birth-weight newborns with post-hemorrhagic hydrocephalus**

**spontaneous INTRACEREBRAL HEMORRHAGES in premature newborns treatment option**

**Penetrating orbitocranial gunshot injuries**

I. Solmaz (Turkey)

**Evaluating clinical outcome in treatment of chronic subdural hematoma using single burr hole craniostomy with and without opening the internal capsule of the hematoma**

B. Shuntov (Macedonia, the Former Yugoslav Republic of)

**Craniocervical trauma above the age of 90: are current prognostic scores sufficient**

P. Rothauf (Germany)

**cysto-ventricular-subarachnoid stenting in newborns with benign intracranial cysts**

**Treatment of mild traumatic brain injury by epidural saline and oxygen injection**

K. Takagi (Japan)

**Gender differences in acute subdural hematomas - a single-center experience**

D. Pinggera (Austria)

**Contrast extravasation in whole-body CT trauma imaging is useful for intracranial hematoma expansion**

H. Yatsushige (Japan)

**Reconstruction Skull Defects With Custom-made Three Dimensional Titanium Implants and Comparison of Titanium Cranioplasty with Polyethylene, Methylmethacrylate Implants and Autologous Bone Grafts**

O. Tehli (Turkey)

**Surveillance for Post TBI Pituitary Dysfunction - Is it time for a Europe-wide study?**

**The Effect of Ventriculoperitoneal Shunt on Thyroid Functions in Hydrocephalic Newborns**

N. Ucler (Turkey)

## Scientific Programme

**A Series of 3 Cases of Unusual Programmable Valve Breakage in Shunt-Systems of Children with Posthemorrhagic Hydrocephalus**

F. Schwarm (Germany)

**Predictors of progression in brain contusions: retrospective study on 352 patients treated in 11 hospitals connected with telemedicine**

E. Picetti (Italy)

**Analysis of epidemiologic data of head and spine injury in ten years of telemedicine experience in the North-West area of Emilia Romagna Region of Italy**

C. Iaccarino (Italy)

**Calcification and rupture of a ventriculoperitoneal shunt**

O. Tehli (Turkey)

**Rescue Craniectomy for the Management of Refractory Subdural Hematomas**

**Bilateral pneumothorax during subdural-peritoneal shunting**

C. Temiz (Turkey)

**Indication of drainage procedure in pediatric hydrocephalus. How gentle we are ? What is the role of transcranial Doppler sonography in daily clinical praxis ?**

B. Kolarovszki (Slovakia)

**Intraventricular Migration of whole Ventriculoperitoneal Shunt Assembly: A Case Report**

M. Tariq (Pakistan)

**Surgical Treatment of Supra- and Infratentorial Traumatic Epidural Hematoma: our experience and literature review**

**Early Decompressive Bifrontal Craniectomy: Case Report of Good Recovery In The Treatment of Severe Traumatic Brain Injury**

M.T. Bozzi (Italy)

**Transfontanelar ultrasound guidance in ventricular catheter placement for perinatal hydrocephalus: two case reports and surgical video**

L. Dias (Portugal)

**Optimising the pressure of shunt-valves in newborns**

T. Freiman (Germany)

**Craniotomy vs craniectomy in posterior fossa decompression surgery for Chiari I Malformation**

M. Ong (Australia)

**A point of care frequency domain near infra red device as a viable non-invasive alternative to brain tissue oxygen tension measurement in traumatic brain injury?**

**Brain surface examination by incident dark field microscopy - a viable method of quantifying cortical perfusion in traumatic brain injury**

**Carcinomatous growth in a meningomyelocele neglected for 21 years**



## Scientific Programme

**Morphometric analysis of posterior fossa and craniovertebral junction in subtypes of Chiari Malformation**

R. Basaran (Turkey)

**Study of Intracranial Pressure (ICP) before and after cranioplasty**

**Long-term outcomes of surgical management in subtypes of Chiari malformation**

R. Basaran (Turkey)

**Cervical spine immobilization in penetrating cervical trauma is associated with an increased risk of indirect central neurological injury**

W. Vanderlan (United States)

**Transnasal approach for congenital nasoethmoid meningocele with chronic cerebrospinal fluid leak - a case report**

B.Y. Wehbe (Latvia)

**Feasibility of Expandable Cage for Vertebral Body Reconstruction in Unstable Thoracolumbar Spine Fractures via Single-Stage Posterior Approach: Surgical Results in 30 Patients**

S.-H. Kim (Korea, Republic of)

**Percutaneous technique with endoscopic assistance for performing posterior C1-C2 transarticular fixation (case report)**

A. Grin (Russian Federation)

**Split cord syndrome: A case of type 1**

M. Efendioglu (Turkey)

**Muscle atrophy after cervical spinal cord injury**

T. Ono (Japan)

**Open spina bifida in premature newborns**

**Hemimyelomeningocele with fork-like bony septum**

I. Solmaz (Turkey)

**Evaluation and management of lumbosacral myelomeningoceles in children**

M.C. Ezgu (Turkey)

**p53 inhibition provides a pivotal protective effect against spine cord ischemia-reperfusion injury in vitro via mTOR signaling**

**Implantation of autogenous mesenchymal cells to the spinal cord in the model (pig -s.domestica) using a prototype implantation device - morphological and imaging evaluation**

**Polycystin 1 and 2 involvement in the pathogenesis of non-syndromic craniosynostosis**

D. Giakoumettis (Greece)

**Thoraco-lumbar fractures in patients with Ankylosing Spondylitis and Diffuse Idiopathic Skeletal Hyperostosis (DISH) & role of minimal invasive spinal fixation and O arm spinal navigation**

**Occult tethered cord syndrome**

S. Zabihiyan (Iran, Islamic Republic of)

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**Navigated O-arm spinal fixation for spinal trauma in a level 1 poly-trauma centre: A minimal invasive approach**

**Surgical treatment of tethered cord secondary to filum and conus lipomas in children and adults: Is there an argument to support prophylactic surgery?**

A. Coppola (Italy)

**Segmental spinal dysgenesis associated with occult dysraphism: considerations on management strategies**

F. Cacciola (Italy)

**Pain and functional improvement effects of methylene blue injection on the soft tissue around fusion site after traumatic thoracolumbar fixation: A double-blind, randomized placebo-controlled study**

H. Yazdanpanah (Iran, Islamic Republic of)

**Cervical Meningocele**

D. Catapano (Italy)

**Neglected trauma of the cervical spine: difficulties of management**

S. Tadjeddine (Algeria)

**Frontal encephalocele**

**Features of diagnosis and surgical treatment of patients with injuries of the spine and spinal cord, resulting from katatrauma**

E. Kazakova (Russian Federation)

**Surgical techniques in management of Thoracolumbar Spine Fractures**

A. Nachanakian (Lebanon)

**Surgical treatment of patients with multiple and multilevel injuries of the spine using minimally invasive technologies**

A. Kaykov (Russian Federation)

**Embryonal Tumor with Multilayered Rosettes: Two Case Reports and a Review of the Literature**

A. Aldahlawi (Saudi Arabia)

**Pediatric glioblastoma with drop metastasis**

I. Solmaz (Turkey)

**Primary cerebral Hydatid cyst: 29yo male patient with recurrent disease despite the long-term recession and high dose of albendazole**

I. Tsonis (Greece)

**Management of Hemispheric cerebral mature teratoma in new born**

R. Kouadria (Algeria)

**Pineal Region Tumour: Single entry burr hole for the application of frameless image guided tumour biopsy and ventriculoperitoneal shunt as alternative to endoscopic procedure**

X. You (Malaysia)

**Preoperative transarterial embolization combined with transnasal endoscopic resection of Nasopharyngeal angiofibroma**

## Scientific Programme

**Posterior fossa pilocytic astrocytoma :10 years retrospective study**

W. Zakaria (Egypt)

**Ganglioglioma of the posterior fossa: report of 4 pediatric cases**

**Bleeding intracranial localization of Ewing sarcoma/pPNET. Report of a rare case and review of the literature**

A. Turrini (Italy)

**Our experience in treatment of posterior fossa pilocytic astrocytomas in pediatric population**

B. Shuntov (Macedonia, the Former Yugoslav Republic of)

**Atypical Teratoid Rhabdoid tumors (ATRT) in the Pineal region ; Case presentation and review of literature**

B. Muhsen (Jordan)

**Assessing mathematical abilities in children with Pilocytic Astrocytoma**

R. Lorusso (Italy)

**Clinical Outcomes of Pineal Region Masses in Paediatric Patients: Single Institution Ten Years Retrospective Review**

**Osteoid osteoma occurs at the pars interarticularis of the lumbar spine mimicking lumbar spondylolysis**

T. Ono (Japan)

**Pilocytic astrocytoma of the conus medullaris in a child**

C. Burford (United Kingdom)

**Spinal Arachnoid Cysts: A review of 6 cases**

M. Zaimoğlu (Turkey)

**Surgery of intramedullary spinal cord tumors, without IOM and CUSA? Our expérience**

R. Kouadria (Algeria)

**Spinal infections: Acute post-operative complications versus chronic neurosurgical infectious disease**

**Vomiting as an Indication for Imaging in Pediatric Traumatic Brain Injury - Questionable Significance!**

**Surgical treatment of comminuted skull fractures in the pediatric population**

S. Sargsyan (Armenia)

**Glasgow Coma Scale and TBI in early childhood**

S. Sargsyan (Armenia)

**An unusual penetrating head injury to a child with a piece of stone - case report**

Z. Brady (Bulgaria)

**Ocular Trauma in Pediatric Traumatic Brain and Spinal Injuries**

D. Agrawal (India)

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**Traumatic vertebral artery dissection in high school rugby football players. A report of 2 cases**

S. Suzuki (Japan)

**Comparison among clinical feature, pathology of cerebral vessels, and RNF213 genotype in moyamoya disease of juvenile onset**

T. Nariai (Japan)

**Neurosurgical treatment of pediatric brain cavernous malformations**

M. Gjurasin (Croatia)

**Radiosurgical treatment of vestibular schwannomas and evaluation of its efficiency by using of neuroimaging**

**Effect of prior embolization on stereotactic radiosurgery (SRS) outcome for intracranial arteriovenous malformations. A case \_control study**

N. Soultanian (Iran, Islamic Republic of)

**The first experience of hypofractionated radiosurgical treatment of melanoma intracranial metastases using gamma knife**

A. Tokarev (Russian Federation)

**Integration of MRI Multivoxel Spectroscopy mapping to radio surgical treatment using ELEKTA GAMMAPLAN**

F. Derkaoui Hassani (Morocco)

**“Do we achieve disease control with adjuvant stereotactic radiosurgery or radiotherapy in atypical meningiomas? A retrospective cohort analysis of 79 cases.”**

S. Amarasinghe (United Kingdom)

**Early Clinical and Radiological Results of Balloon Kyphoplasty in the Treatment of Osteoporotic Vertebral Compression Fracture**

K. Tanaka (Japan)

**Selective dorsal rizotomy on spasticity treatment: a case report**

M. Onoz (Turkey)

**Employment preservation in Parkinsonian patients after Deep Brain Stimulation**

C. Cavandoli (Italy)

**The TALOS®-DBS system: A possible key to the skull skin erosions and scalp bulging complications of the DBS patients. A preliminary report**

D. Karabetsos (Greece)

**Use of 7 T MRI-based atlas in planning of multidirectional DBS electrodes-trajectories**

C. van der Linden (Belgium)

**Anatomical variations of the superior petrosal vein**

S. Sehweil (Russian Federation)

**The effect of needle location on outcome of radiofrequency rhizotomy for trigeminal neuralgia**

M.H.-C. Lin (Taiwan)

## Scientific Programme

**Microvascular decompression of the VII/VIII cranial nerve complex for the treatment of intermediate nerve neuralgia: a retrospective case series**

E. Goulin Lippi Fernandes (Germany)

**Otalgia due to vascular compression of the intermediate nerve**

K. Themistoklis (Greece)

**Obersteiner-Redlich Zone of the Nervus Intermedius and its Implications for the Microsurgical Treatment of the Nervus Intermedius Neuralgia**

L. Török (Germany)

**Improving the quality of life following Spinal Surgeries using an eight week exercise program-A case control study**

A. Fatima (Pakistan)

**Trigeminal neuralgia in patients older than 65: results of microvascular decompression by key-hole retrosigmoid approach compared to those of younger patients**

L. Mastronardi (Italy)

**Vestibular neurectomy for intractable vertigo in Ménière's disease**

**Microvascular Decompression of Medically Refractory Trigeminal Neuralgia**

V. Tsikarishvili (Georgia)

**Arterial hypertension is associated with late clinical presentation in classical trigeminal neuralgia and independently predicts recurrence after microvascular decompression: a single center experience**

V. Pinto (Portugal)

**Percutaneous balloon compression for primary and secondary Trigeminal Neuralgia : a 10 years experience**

C. Constantoyannis (Greece)

**Patient burden and costs in trigeminal neuralgia treated via microvascular decompression: A single-centre cross-sectional survey**

K. Obermueller (Germany)

**Awake craniotomy without sedation in treatment of patients with lesional epilepsy**

A. Sitnikov (Russian Federation)

**Surgical treatment of MR negative epilepsy in Moscow**

O. Kochetkova (Russian Federation)

**Epilepsy Surgery Failures**

M. Talabaev (Belarus)

**Electrocorticographic Measurement in Pediatric Response Inhibition Tasks**

C.-H. Kuo (United States)

**"Best responders" to Vagal nerve stimulation in a paediatric drug-resistant epileptic population**

A. Landi (Italy)

## Scientific Programme

**Prospective Analysis of 14 Cases with Peripheral Nerve Field Stimulation (PNFS) for Chronic Lumbar Pain and the Predictive Value of Transcutaneous Electrical Nerve Stimulation (TENS)**

F. Schwarm (Germany)

**Long Term Outcomes of High Cervical Spinal Cord Stimulation in the Management of Refractory Facial Pain**

K. Tambirajoo (United Kingdom)

**Intraoperative local field potential recordings during deep brain stimulation for Parkinson's disease**

J. Kim (Korea, Republic of)

**Resting state evidence of network reorganization induced by navigated repetitive transcranial magnetic stimulation: preliminary experience in neurosurgical patients**

A. Scibilia (Italy)

**A rare case of pulmonary artery embolization caused by cysto - atrial shunt fragment**

A. Rovlias (Greece)

**Malignant ischemic stroke after cranioplasty: A fatal complication of a routine procedure**

A. Zigouris (Greece)

**Lumboperitoneal shunt insertion without fluoroscopy guidance: Accuracy of placement in a series of 107 procedures**

S. Al-Rashed (United Kingdom)

**Outcome of endoscopic fenestration of arachnoid cyst; report of 6 cases**

**COMPLICATION OF A VENTRICULAR CATHETER LEFT IN SITU IN AN ADULT: TUMOR CYSTIC LESION. A CASE REPORT**

A. Iaquinandi (Italy)

**Delayed intraventricular pneumocephalus following shunting for normal pressure hydrocephalus**

N. Vantomme (Belgium)

**Delayed intraventricular hemorrhage following a ventriculo-peritoneal shunt placement: Report of a rare case**

I. Mavridis (Greece)

**Multidisciplinary management of idiopathic normal pressure hydrocephalus**

A. Valluzzi (Italy)

**Colloid Cyst of the third ventricle with acute hydrocephalus in monozygotic twins - a rare case**

M. Yaish (Germany)

**The ideal trajectory for freehand placement of frontal external ventricular drains**

K. Parmanand (United Kingdom)

## Scientific Programme

**Intraoperative Identification Of Laterral Ventricular Anatomical Landmarks** DR Ahmed Adnan , DR Anjam Rawandozy DR Mahamed N. khasro

A. Adnan (Iraq)

**A New Quantitative Method to Assess Disproportionately Enlarged Subarachnoid Space (DESH) in Patients with Possible Idiopathic Normal Pressure Hydrocephalus: The SILVER Index**

N. Benedetto (Italy)

**Enormous non-traumatic pneumocephalus associated with rhinorrhea in an 84 year-old patient**

C. Tsitsipanis (Greece)

**MANAGEMENT OF THIRD VENTRICULAR ARACHNOID CYST ASSOCIATED WITH A COMPLEX BRAIN MALFORMATION: CASE REPORT AND LITERATURE REVIEW**

M. Blagia (Italy)

**Changes of thyroid hormones after ventriculoperitoneal shunting and endoscopic third ventriculostomy**

M. Urbonas (Lithuania)

**Endoscopic cystoventriculostomy for treatment of intraventricular and periventricular arachnoid cysts**

A. Fayed (Egypt)

**Factors contributing to External Ventricular Drain (EVD) infection rates at a Single Neurosurgical Centre**

S. Wadanamby (United Kingdom)

**Diagnostic pitfalls of posttraumatic hydrocephalus and long-term outcomes of CSF shunting in vegetative and minimal conscious state patients**

A. Kravchuk (Russian Federation)

**Intraventricular cryptococcoma mimicking an ependymoma in an immunocompetent patient with hydrocephalus**

X. Santander (Spain)

**SIMULTANEOUS CRANIOPLASTY, ENDOSCOPIC SEPTOSTOMY AND THIRDVENTRICULOSTOMY IN PATIENT WITH DECOMPRESSIVE CRANIECTOMY: CASE REPORT AND LITERATURE REVIEW**

**Disproportionately large communicating fourth ventricle secondary to ruptured PICA aneurysm: case report**

Y. Canton Kessely (France)

**Posterior fossa arachnoid cyst - Review of cases operated in 6 years**

L. Santos Cardoso (Portugal)

**Three-Dimensional Ventricular Endoscopy: Preliminary Experience**

P.P. Mattogno (Italy)

**evaluation of safety and accuracy of placing external ventricle drainages (EVDs) with skilled surgery assistance by theatre nurse**

I. Janssen (Germany)

**Overshunting-associated myelopathy: report of 2 cases**

## Scientific Programme

**Unusual Presentation of Obstructive Hydrocephalus secondary to 3rd Ventricle Cysticercosis. A Case Presentation**

T. Kitko (United States)

**Secondary deterioration of idiopathic normal pressure hydrocephalus after VP-shunt treatment can be treated**

D. Engel (Germany)

**Hydrocephalus: an underrated long-term complication of microvascular decompression for trigeminal neuralgia. A single institute experience**

**Spontaneous sphenoid sinus meningocele - case report**

P. Ilkov (Bulgaria)

**Does the clinical and electrodiagnostic severity of the less symptomatic hand of bilateral carpal tunnel syndrome affect the timing of contralateral staged endoscopic surgery ?**

S.-H. Park (Korea, Republic of)

**Autologous Fibrin Glue in Peripheral Nerve Injury: An In-Vivo Study**

A. Lizan (Philippines)

**Complex regional pain syndrome following carpal tunnel surgery**

B. Caner (Turkey)

**The effect of vitamin D supplementation on neuropathic pain induced by chronic constriction injury in rat**

M. Saghazadeh (Iran, Islamic Republic of)

**Morphological Structure and Variations of Lumbar Plexus in Fetuses**

O. Tehli (Turkey)

**The role of ultrasound in Carpal Tunnel Syndrome management: a study of 20 cases**

L. Dias (Portugal)

**The common peroneal nerve entrapment in peroneal cap and endoneural cysts**

P. Anania (Italy)

**Rosemary Kennedy-Lobotomy as a trend and reflects on history of psychosurgery**

T. Paschalis (Greece)

**The Global Organization of Health Education: Bringing Neurodiagnostics Education to Developing Nations by Teguo Djoyum Daniel, PM, BS, R. EEG T**

**The olfactory ensheathing cells collected from cadaver of human fetus in regeneration medicine in concept of legal regulations and possible usage**

J. Andrychowski (Poland)

**Efficacy of 3D print technology registered to image guided system (IGS) as an educational tool among healthcare professionals**

X. You (Malaysia)

**What Neurosurgeons Need to Know about Anticoagulation Reversal - An update of the New Oral Anticoagulants and UK practice**

K. Bhatt (United Kingdom)



## Scientific Programme

**Surgical spinal wound infections: what to do about them? The National Hospital for Neurology and Neurosurgery Experience**

J.F. Mullane (United Kingdom)

**Advanced rehearsal and intraoperative navigation: a preliminary evaluation study (the STARS study)**

E. Gambatesa (Italy)

**Preliminary experience with holographic augmented reality in neurosurgery**

P. Kubben (Netherlands)

**Fighting Burnout. Neurosurgery and the Physical Arts**

G. Halamandaris (United States)

**How Africa can benefit from EANS, How EANS can benefit from Africa: the neurosurgical trainee in focus!**

**Catch them young! analysis of attitude of interns towards neurosurgery after a structured exposure**

A. Thapa (Nepal)

**Neuropsychological deficits in children with pediatric traumatic brain injury**

N. Syrmos (Greece)

**Getting personal: are UK neurosurgeons adopting a patient-centered model of consent?**

C. McKinnon (United Kingdom)

**Joseph Buford Pennybacker CBE MD FRCS (1907-1983): Continuing Sir Hugh Cairns' Oxford Legacy and Pioneer of the Modern Management of Cerebral Abscesses**

R. Visagan (United Kingdom)

**Conflicts of Interest in Neurosurgical Innovation**

A. DiRisio (United States)

**Analyzing knowledge gaps in Neurosurgical Residents during The Comprehensive Clinical Neurosurgery (CCN) Review Course**

W. Alduais (Canada)

**Post-operative infections requiring surgical reintervention. What has changed in the last years?**

R. Almeida Ramos (Portugal)

**Cauterization in the management of pain and neurological diseases**

W. Selen (Netherlands)

**From Hippocrates to Neuroendoscopy and Shunts: the History of Hydrocephalus and its Treatment**

A.N. Amr (United Kingdom)

**Launching NeuroGuide 2.0 - Russian mobile app for neurologists, neurosurgeons and neurointensivists: first usage experience**

G. Danilov (Russian Federation)

**Tough Challenges in Neuro Oncology and Neurosurgery**

## Scientific Programme

**Customized polymethylmethacrylate cranioplasty implants using 3D printed polylactic acid molds**

R. Moussa (Lebanon)

**Who Dunnit? Pulmonary arteriovenous fistula as the culprit behind various abscesses over a span of 20 years - A case report**

**Anatomical study and virtual 3D simulation of contralateral supraorbital approaches to the interoptic triangle and the ophthalmic segment of the internal carotid artery**

L. Serrano (Germany)

**Intravital confocal laser-scanning microscopic imaging study of mannitol effects on the cerebrovascular system: a pilot study and results**

K. Chong (Korea, Republic of)

**Chondroitinase ABC for Functional Recovery after Spinal Cord Injury: Systematic Review and Meta-Analyses of Preclinical Studies**

C.H. Koh (United Kingdom)

**Meloxicam 15 mg versus Lornoxicam 16 mg as a treatment of chronic back pain in elderly patients**

E. Syrmou (Greece)

**Diclofenac sodium as a treatment of acute low back pain in elements with amateur athletic activity**

N. Syrmos (Greece)

**The SwissNeuroFoundation Aneurysm Data Bank**

P. Bijlenga (Switzerland)

**Chitosan bio-polymer as a dural substitute**

R. Ramos-Zúñiga (Mexico)

General  
20:00 - 21:30

Sala Grande

## Welcome Reception

## Scientific Programme

### Monday, 02 October 2017

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Neuro-oncology  
 08:45 - 10:40

Sala Grande

#### Plenary Session: Neuro-oncology

|                                                                                             |                      |
|---------------------------------------------------------------------------------------------|----------------------|
| <b>Current concepts in the management of high-grade gliomas</b>                             | <b>08:45 - 09:05</b> |
| <b>Current concepts in the management of low-grade gliomas</b><br>M. Skrap (Italy)          | <b>09:05 - 09:25</b> |
| <b>Current concepts in the management of cerebral metastases</b>                            | <b>09:25 - 09:45</b> |
| <b>Brain mapping and neuroplasticity in diffuse low-grade gliomas</b><br>H. Duffau (France) | <b>09:45 - 10:05</b> |
| <b>Non-surgical management of patients with brain cancer</b><br>R. Soffietti (Italy)        | <b>10:05 - 10:25</b> |

ePoster Presentations  
 09:00 - 18:55

ePoster area

#### ePosters

General  
 09:00 - 10:00

Sala Welles

#### Presentation and introduction to simulation in neurosurgery and its latest developments

not accredited

General  
 10:00 - 12:00

Sala Welles

#### 1st European Neurosurgery Simulation Session - ongoing sessions

not accredited

Neuro-oncology  
 11:20 - 13:05

Sala Grande

#### Neuro-oncology 1: Controversies in the Management of Complex Meningiomas

## Scientific Programme

|                                                                                                                                                        |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Controversies and guidelines for the management of patients with meningiomas</b>                                                                    | <b>11:20 - 11:40</b> |
| R. Goldbrunner (Germany)                                                                                                                               |                      |
| <b>A Simple Answer to Complex Meningiomas</b>                                                                                                          | <b>11:40 - 12:00</b> |
| O. Al-Mefty (United States)                                                                                                                            |                      |
| <b>Using controversies to create solutions in neurosurgery</b>                                                                                         | <b>12:00 - 12:20</b> |
| A. Scarrow (United States)                                                                                                                             |                      |
| <b>Current understanding of genetic heterogeneity in meningiomas</b>                                                                                   | <b>12:20 - 12:35</b> |
| T. Santarius (United Kingdom)                                                                                                                          |                      |
| <b>Supraorbital keyhole approach in the management of anterior cranial fossa meningiomas</b>                                                           | <b>12:35 - 12:50</b> |
| P. Selviaridis (Greece)                                                                                                                                |                      |
| <b>Upfront 5-fraction Stereotactic Radiosurgery for Petro-Clival Meningiomas</b>                                                                       | <b>12:50 - 12:57</b> |
| A. Conti (Italy)                                                                                                                                       |                      |
| <b>The Anaplastic Meningioma International Consortium (AMICo) retrospective study of treatment and outcome of patients with anaplastic meningiomas</b> | <b>12:57 - 13:04</b> |
| A. Young (United Kingdom)                                                                                                                              |                      |

Spinal Neurosurgery  
 11:20 - 13:05

Sala Perla

### Spinal Neurosurgery 1: Spinal Navigation and intraoperative high-tech

|                                                                                                                                                                     |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>TBD (CON)</b>                                                                                                                                                    | <b>11:20 - 11:35</b> |
| Y.-M. Ryang (Germany)                                                                                                                                               |                      |
| <b>TBD (PRO)</b>                                                                                                                                                    | <b>11:35 - 11:50</b> |
| M. Ivanov (United Kingdom)                                                                                                                                          |                      |
| <b>Precision screws using neuronavigation</b>                                                                                                                       | <b>11:50 - 12:05</b> |
| C. Raftopoulos (Belgium)                                                                                                                                            |                      |
| <b>O-arm use in spine surgery may be an option</b>                                                                                                                  | <b>12:05 - 12:20</b> |
| <b>D-wave monitoring during surgery for intramedullary spinal cord tumors: Myth and reality on a consecutive series of 248 patients</b>                             | <b>12:20 - 12:35</b> |
| F. Sala (Italy)                                                                                                                                                     |                      |
| <b>Posterior lumbar decompression and fusion using an intraoperative 3D imaging-based navigation system for lumbar degenerative diseases</b>                        | <b>12:35 - 12:42</b> |
| S. Cardali (Italy)                                                                                                                                                  |                      |
| <b>Spinal navigation: less radiation more accuracy</b>                                                                                                              | <b>12:42 - 12:49</b> |
| <b>INTRAOPERATIVE ZIEHM VISION RFD 3D C-ARM IMAGING COMBINED WITH BRAINLAB SPINAL NAVIGATION IN INSTRUMENTED SPINAL PROCEDURES: TECHNICAL NOTES AND PILOT STUDY</b> | <b>12:49 - 12:56</b> |
| L. Sprenger (Switzerland)                                                                                                                                           |                      |

## Scientific Programme

Neurotrauma and Critical Care  
 11:20 - 13:05

Sala Casinò

### Neurotrauma and Critical Care 1: Management of Severe TBI

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Monitoring severe TBI: the importance of autoregulation</b>                                                                                                                                                        | <b>11:20 - 11:35</b> |
| <b>Severe TBI in patients with impaired coagulation</b><br>A. Unterberg (Germany)                                                                                                                                     | <b>11:35 - 11:50</b> |
| <b>DC in low-income countries</b>                                                                                                                                                                                     | <b>11:50 - 12:05</b> |
| <b>Stem cell therapy for TBI</b>                                                                                                                                                                                      | <b>12:05 - 12:20</b> |
| <b>The effects of hyperbaric oxygen on traumatic brain injury patients suffering from chronic neurocognitive delicts - correlation between cognitive functions and brain metabolic imaging</b><br>A. Hadanny (Israel) | <b>12:20 - 12:27</b> |
| <b>Disaster Response: Advancing Neurosurgery and Global Healthcare</b><br>R. Andrews (United States)                                                                                                                  | <b>12:27 - 12:34</b> |
| <b>On management of optimal cerebral perfusion pressure for severe traumatic brain injury patients</b><br>A. Preiksaitis (Lithuania)                                                                                  | <b>12:34 - 12:41</b> |
| <b>Cerebral perfusion pressure insults and associations with outcome in adult traumatic brain injury</b><br>B. Depreitere (Belgium)                                                                                   | <b>12:41 - 12:48</b> |
| <b>Reoperations in the surgery of traumatic acute subdural hematoma</b><br>I. Heino (Finland)                                                                                                                         | <b>12:48 - 12:55</b> |
| <b>Intracranial pressure monitoring after primary decompressive craniectomy in traumatic brain injury: speculative tool or guide for therapy?</b><br>C. Iaccarino (Italy)                                             | <b>12:55 - 13:02</b> |

Vascular Neurosurgery  
 11:20 - 13:05

Sala Volpi

### Vascular Neurosurgery 1: Clinical Advances in Cerebrovascular Neurosurgery

#### Chairs:

A. Raabe (Switzerland)

|                                                                                                |                      |
|------------------------------------------------------------------------------------------------|----------------------|
| <b>Hemicraniectomy in ischemic stroke: an update</b>                                           | <b>11:20 - 11:35</b> |
| <b>SAH and hematomas - different strategies</b>                                                | <b>11:35 - 11:50</b> |
| <b>Staged radiosurgery in large AVMs - four different strategies: Expectations and results</b> | <b>11:50 - 12:05</b> |
| <b>Current bypass indication and classification</b><br>G. Esposito (Switzerland)               | <b>12:05 - 12:20</b> |
| <b>Early Drain Trial - prospective study on the use of lumbar drainage after SAH</b>           | <b>12:20 - 12:27</b> |

## Scientific Programme

|                                                                                                                                                              |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Decompressive craniectomy in poor-grade aneurysmal subarachnoid haemorrhage</b>                                                                           | <b>12:27 - 12:34</b> |
| A. Airapetyan (Russian Federation)                                                                                                                           |                      |
| <b>Prophylaxis, diagnosis, and therapy of delayed cerebral ischemia in patients with aneurysmal subarachnoid hemorrhage in Germany: a nation-wide survey</b> | <b>12:34 - 12:41</b> |
| S. Hernandez Duran (Germany)                                                                                                                                 |                      |
| <b>Biomechanics of aneurysms' wall: a multi-scale study</b>                                                                                                  | <b>12:41 - 12:48</b> |
| F. Signorelli (France)                                                                                                                                       |                      |
| <b>Impacting treatment of brain AVMs by nTMS</b>                                                                                                             | <b>12:48 - 12:55</b> |
| S. Ille (Germany)                                                                                                                                            |                      |
| <b>Draining vein shielding in Intracranial AVM's during Gamma-Knife: A new way of preventing post Gamma-Knife Edema and Hemorrhage</b>                       | <b>12:55 - 13:02</b> |
| D. Agrawal (India)                                                                                                                                           |                      |

Pediatric Neurosurgery  
11:20 - 13:05

Sala Pasinetti

### Pediatric Neurosurgery 1: Philosophy of Craniopharyngioma Treatment

|                                                                                                                                                          |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>TBD</b>                                                                                                                                               | <b>11:20 - 11:35</b> |
| J. Wisoff (United States)                                                                                                                                |                      |
| <b>Management of craniopharyngioma in children</b>                                                                                                       | <b>11:35 - 11:50</b> |
| C. Di Rocco (Italy)                                                                                                                                      |                      |
| <b>Proton vs. photons in children</b>                                                                                                                    | <b>11:50 - 12:05</b> |
| <b>Suprasellar craniopharyngiomas involving the third ventricle: the role of the endoscopic endonasal surgery</b>                                        | <b>12:05 - 12:12</b> |
| D. Mazzatenta (Italy)                                                                                                                                    |                      |
| <b>Microsurgical resection of craniopharyngiomas: personal experience in selecting the best surgical approach based on anatomic site of tumor growth</b> | <b>12:12 - 12:19</b> |
| <b>Endoscopic skull base reconstruction techniques: tips and tricks</b>                                                                                  | <b>12:19 - 12:26</b> |
| F. Pozzi (Italy)                                                                                                                                         |                      |
| <b>Diagnosis and treatment of cavernous malformations of the brain in children</b>                                                                       | <b>12:26 - 12:33</b> |
| M. Livshits (Russian Federation)                                                                                                                         |                      |
| <b>Multidisciplinary management of AVMs in children</b>                                                                                                  | <b>12:33 - 12:40</b> |
| A. Iliescu (Romania)                                                                                                                                     |                      |
| <b>Intracranial aneurysms in children. A personal experience of 46 cases. (Oral presentation)</b>                                                        | <b>12:40 - 12:47</b> |
| A.V. Ciurea (Romania)                                                                                                                                    |                      |

## Scientific Programme

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|------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Multimodality Management of Pediatric Intracranial Arteriovenous Malformations (AVM)</b>                            | <b>12:47 - 12:54</b> |
| Y. Orz (Saudi Arabia)                                                                                                  |                      |
| <b>Moyamoya disease: a rare cause of stroke in Scandinavia. Preliminary results of a Danish population based study</b> | <b>12:54 - 13:01</b> |
| P. Birkeland (Denmark)                                                                                                 |                      |

Neuro-oncology  
 11:20 - 13:05

Sala Mangano

## Oral Presentations

|                                                                                                                                                                                |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Residual and Recurrent Disease After Endoscopic Endonasal Approach to Midline Anterior Skull Base Meningiomas</b>                                                           | <b>11:20 - 11:25</b> |
| P. Gardner (United States)                                                                                                                                                     |                      |
| <b>Von Hippel-Lindau Disease: an Evaluation of Natural History and Functional Disability</b>                                                                                   | <b>11:25 - 11:30</b> |
| A. Feletti (Italy)                                                                                                                                                             |                      |
| <b>Navigated 3D FLAIR and 5-ALA fluorescence guided surgery in high-grade gliomas: an intraoperative imaging protocol for supramaximal tumor resection</b>                     | <b>11:30 - 11:35</b> |
| G. Barbagallo (Italy)                                                                                                                                                          |                      |
| <b>Baseline and intraoperative serum lactate levels used as indicators for intracranial tumor malignancy</b>                                                                   | <b>11:35 - 11:40</b> |
| J. Golubović (Serbia)                                                                                                                                                          |                      |
| <b>The pivotal ischemic mechanism in glioma - The Hypoxia Induced Glioma Derived Exosome miRNA-199a-3p increased ischemic injury of the neurons by inhibiting mTOR pathway</b> | <b>11:40 - 11:45</b> |
| R. Xie (China)                                                                                                                                                                 |                      |
| <b>Melatonin and cortisol secretion profile in patients with pineal cyst before and after pineal cyst resection</b>                                                            | <b>11:45 - 11:50</b> |
| M. Majovsky (Czech Republic)                                                                                                                                                   |                      |
| <b>Temporal changes in vestibular schwannoma incidence in the East of England</b>                                                                                              | <b>11:50 - 11:55</b> |
| Y. Wan (United Kingdom)                                                                                                                                                        |                      |
| <b>Modified Dolenc-Kawase Approach for Large Petroclival Region Tumors: Quantitative Comparative Analysis with Kawase's Approach</b>                                           | <b>11:55 - 12:00</b> |
| M. Tripathi (India)                                                                                                                                                            |                      |
| <b>Stromal cells of hemangioblastomas exhibit mesenchymal stem cell-derived vascular progenitor cell properties</b>                                                            | <b>12:00 - 12:05</b> |
| S. Takada (Japan)                                                                                                                                                              |                      |
| <b>Validation of grading scores and outcome prognostic factors in elderly intracranial meningiomas</b>                                                                         | <b>12:05 - 12:10</b> |
| J. Delgado-Fernandez (Spain)                                                                                                                                                   |                      |

## Scientific Programme

|                                                                                                                                                                     |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Individual Designed Approaches and Microsurgery for Huge Petrous Bone-invasive Tumors: Report of 57 cases</b><br>X. Liu (China)                                  | <b>12:10 - 12:15</b> |
| <b>Fibronectin-adherent peripheral blood derived mononuclear cells as Paclitaxel carriers for glioblastoma treatment: an in vitro study</b><br>M. Schiariti (Italy) | <b>12:15 - 12:20</b> |
| <b>Early posterior fossa decompressive craniectomy as a life-saving procedure for acute post-operative cerebellar swelling</b><br>M. Broggi (Italy)                 | <b>12:20 - 12:25</b> |
| <b>Gamma knife surgery versus surgery or radiation therapy for cavernous sinus cavernous hemangioma</b><br>J. Cho (Korea, Republic of)                              | <b>12:25 - 12:30</b> |
| <b>The outcome of management of a series of Grade III intracranial meningiomas</b><br>F. Rasul (United Kingdom)                                                     | <b>12:30 - 12:35</b> |
| <b>Rhabdoid Meningioma: A single unit experience of treatment for a rare and aggressive variant and review of the literature</b><br>D. Jeyaretna (United Kingdom)   | <b>12:35 - 12:40</b> |
| <b>Remote Ischemic Preconditioning in the Surgical Treatment of Brain Tumors: a Pilot Randomized Controlled Trial</b><br>J. Gempt (Germany)                         | <b>12:40 - 12:45</b> |
| <b>Diffuse gliomas exhibit whole brain impaired cerebrovascular reactivity</b><br>J. Fierstra (Switzerland)                                                         | <b>12:45 - 12:50</b> |
| <b>A Systematic Review of the Health Economics Impact of 5-ALA in High Grade Glioma Surgery</b><br>R. Zewude (Canada)                                               | <b>12:50 - 12:55</b> |
| <b>siRNA silencing of the shuttling protein karyopherin <math>\alpha 2</math> inhibits gliomagenesis in vitro</b><br>K. Gousias (Germany)                           | <b>12:55 - 13:00</b> |
| <b>Gliosarcomas. Which are the factors associated with better survival?</b><br>R. Ramos (Portugal)                                                                  | <b>13:00 - 13:05</b> |

General  
11:20 - 13:05

Sala Martinelli

## Microscopic or Endoscopic Approaches to Skull Base

|                                                                                                                                            |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Olfactory neuroblastoma: A single-center experience</b><br>T.R. Meling (Norway)                                                         | <b>11:20 - 11:35</b> |
| <b>Endoscopic Endonasal approach for posterior fossa meningioma</b><br>D. Mazzatenta (Italy)                                               | <b>11:35 - 11:50</b> |
| <b>Surgical outcome of the transsphenoidal approach in patients <math>\geq 70</math> years with sella pathologies</b><br>Y. Wang (Germany) | <b>11:50 - 11:57</b> |



## Scientific Programme

|                                                                                                                                                                                                                                                         |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Impact of Matrix Metalloproteinases (MMPs)- 1, -7, and -9 on Pituitary Adenomas</b><br>N. Balak (Turkey)                                                                                                                                             | <b>11:57 - 12:04</b> |
| <b>Low O6-methylguanine-DNA methyltransferase (MGMT) and Pan-cytokeratin (Pan CK) expression via immunohistochemistry in pituitary adenomas</b><br>N. Balak (Turkey)                                                                                    | <b>12:04 - 12:11</b> |
| <b>Evaluation of Intranasal Flap Perfusion by Intraoperative ICG Fluorescence Angiography</b><br>P. Gardner (United States)                                                                                                                             | <b>12:11 - 12:18</b> |
| <b>Pituitary endoscopic surgery: the mononostril, two-hands three-instruments technique</b><br>C. Serra (Switzerland)                                                                                                                                   | <b>12:18 - 12:25</b> |
| <b>Snare technique for the remodeling of the redundant arachnoid pouch to prevent cerebrospinal fluid rhinorrhea and hematoma collection during transsphenoidal surgery for suprasellar-extended pituitary tumors</b><br>J.H. Moon (Korea, Republic of) | <b>12:25 - 12:32</b> |
| <b>Factors influencing Visual Outcome in Tuberculum Sellae Meningiomas</b><br>E. Knosp (Austria)                                                                                                                                                        | <b>12:32 - 12:39</b> |
| <b>Endoscopic endonasal approach to Meckel Cave Neuromas</b><br>M. Zoli (Italy)                                                                                                                                                                         | <b>12:39 - 12:46</b> |
| <b>Endoscopic surgery of pituitary adenomas invading the III ventricle. Complications and outcome</b><br>M. Guk (Ukraine)                                                                                                                               | <b>12:46 - 12:53</b> |
| <b>Endoscopic transorbital approach: an alternative for spheno-orbital lesion</b><br>C. Zoia (Italy)                                                                                                                                                    | <b>12:53 - 13:00</b> |

General  
 11:20 - 13:05

Sala Zorzi

## Science SLAM

A unique event where innovative scientific studies are presented in a particularly entertaining way. Neurosurgeons under 40 have previously been invited to submit their work. The top five candidates will present their work "live" and the winner will be chosen by the audience.

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>11:20 - 11:35</b> |
| <b>TBD</b> | <b>11:35 - 11:50</b> |
| <b>TBD</b> | <b>11:50 - 12:05</b> |
| <b>TBD</b> | <b>12:05 - 12:20</b> |
| <b>TBD</b> | <b>12:20 - 12:35</b> |
| <b>TBD</b> | <b>12:35 - 12:50</b> |
| <b>TBD</b> | <b>12:50 - 13:05</b> |

## Scientific Programme

Spinal Neurosurgery  
 11:20 - 12:20

Sala Beatty

### Meet the Experts Seminar 1: Endoscopic versus Transoral Resection of Upper Cervical Pathologies

|     |               |
|-----|---------------|
| TBD | 11:20 - 11:40 |
| TBD | 11:40 - 12:00 |
| TBD | 12:00 - 12:20 |

Vascular Neurosurgery  
 11:20 - 12:20

Sala Kubrick

### Meet the Experts Seminar 2

|     |               |
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| TBD | 11:20 - 11:40 |
| TBD | 11:40 - 12:00 |
| TBD | 12:00 - 12:20 |

Neuro-oncology  
 11:20 - 12:20

Sala Bardot

### Meet the Experts Seminar 3

|     |               |
|-----|---------------|
| TBD | 11:20 - 11:40 |
| TBD | 11:40 - 12:00 |
| TBD | 12:00 - 12:20 |

Corporate Symposium  
 13:25 - 14:25

Sala Casinò

### Industry-Sponsored Symposium

Corporate Symposium  
 13:25 - 14:25

Sala Volpi

### Industry-Sponsored Symposium

General  
 13:25 - 14:25

Sala Mangano

### Peripheral Nerves Diseases

## Scientific Programme

|                                                                                                                                         |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Controversies and dilemmas in surgery of injuries and diseases of peripheral nerves</b>                                              | <b>13:25 - 13:35</b> |
| L. Rasulic (Serbia)                                                                                                                     |                      |
| <b>Nerve transplatation across cryopreserved allografts from cadaveric donors in peripheral nerves reconstruction</b>                   | <b>13:35 - 13:42</b> |
| G. Stevanato (Italy)                                                                                                                    |                      |
| <b>Targeting the molecular mechanism of foreign body reaction (FBR) to peripheral neural interface</b>                                  | <b>13:42 - 13:49</b> |
| D.G. Barone (United Kingdom)                                                                                                            |                      |
| <b>Evaluation of 25 patients with cubital tunnel syndrome operated under local anesthesia or using axillary block</b>                   | <b>13:49 - 13:56</b> |
| N. Ucler (Turkey)                                                                                                                       |                      |
| <b>A nationwide analysis of 30-day readmission and adverse events after peripheral nerve surgery in extremities using NSQIP</b>         | <b>13:56 - 14:03</b> |
| E. Martin (Netherlands)                                                                                                                 |                      |
| <b>Timing of Surgery in Traumatic Brachial Plexus Injury: A Systematic Review</b>                                                       | <b>14:03 - 14:10</b> |
| E. Martin (Netherlands)                                                                                                                 |                      |
| <b>Iatrogenic injury to the brachial plexus: causative mechanisms, treatment and functional patient outcome</b>                         | <b>14:10 - 14:17</b> |
| N.F. Dengler (Germany)                                                                                                                  |                      |
| <b>The peripheral nerve tumor registry: design of a prospective observational study and preliminary retrospective two-year-analysis</b> | <b>14:17 - 14:24</b> |
| N.F. Dengler (Germany)                                                                                                                  |                      |

General  
 13:25 - 14:25

Sala Martinelli

## Oral Presentations

|                                                                                                                                                                      |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Volumetric Analysis of the Insula using MRI - a possible surrogate marker for post-operative seizure persistence in refractory mesial temporal lobe epilepsy?</b> | <b>13:25 - 13:30</b> |
| A. Chawira (United Kingdom)                                                                                                                                          |                      |
| <b>Lipofuscin in the epileptic brain</b>                                                                                                                             | <b>13:30 - 13:35</b> |
| K. Hakvoort (Netherlands)                                                                                                                                            |                      |
| <b>Cyberknife radiosurgery for Trigeminal Neuralgia</b>                                                                                                              | <b>13:35 - 13:40</b> |
| P. Romanelli (Italy)                                                                                                                                                 |                      |
| <b>Evaluation of the iSYS1® robot for frameless brain biopsy: a prospective, exploratory pilot study</b>                                                             | <b>13:40 - 13:45</b> |
| F.G. Legnani (Italy)                                                                                                                                                 |                      |
| <b>Resection of pineal cysts - to do or not to do?</b>                                                                                                               | <b>13:45 - 13:50</b> |
| A. El Damaty (Germany)                                                                                                                                               |                      |

## Scientific Programme

|                                                                                                                                                        |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Anterior Cingulotomy for Intractable Oncological Pain</b><br>A. Berger (Israel)                                                                     | <b>13:50 - 13:55</b> |
| <b>Adaptive DBS: local field potentials, wearables or both?</b><br>P. Kubben (Netherlands)                                                             | <b>13:55 - 14:00</b> |
| <b>Inflammation in chronic subdural haematoma and the administration of dexamethasone</b>                                                              | <b>14:00 - 14:05</b> |
| <b>Open book bifrontal osteoplastic craniotomy: technique for a well vascularised cosmetic flap in trauma</b><br>A. Thapa (Nepal)                      | <b>14:05 - 14:10</b> |
| <b>Hematopoietic stem cell growth factors improve recovery in the subacute phase of experimental traumatic brain injury</b><br>L. Chin (United States) | <b>14:10 - 14:15</b> |
| <b>Irrigation fluid at body temperature versus irrigation fluid at room temperature in the evacuation of chronic subdural hematoma</b>                 | <b>14:15 - 14:20</b> |
| <b>The Ethiopian Neurosurgery Outcome Monitoring Database: Development And Progress With Emphasis On Neurotrauma</b><br>T.L. Teklemariam (Ethiopia)    | <b>14:20 - 14:25</b> |

General  
 14:00 - 18:00

Sala Welles

### 1st European Neurosurgery Simulation Session - ongoing sessions

not accredited

Vascular Neurosurgery  
 14:35 - 16:35

Sala Grande

### Plenary Session: Vascular Neurosurgery

**Chairs:**  
 M. Cenzato (Italy)

|                                                                                                             |                      |
|-------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Innovation in cerebrovascular disease and stroke</b><br>N. Hopkins (United States)                       | <b>14:35 - 14:55</b> |
| <b>Strategies in cerebrovascular microsurgery: has surgical risk changed in the last decades?</b>           | <b>14:55 - 15:15</b> |
| <b>Ten year results of BRAT</b><br>R. Spetzler (United States)                                              | <b>15:15 - 15:35</b> |
| <b>The science, art, facts and biases in endovascular and microsurgical management of aneurysms in 2017</b> | <b>15:35 - 15:55</b> |
| <b>European consensus conference on AVM Treatment: AVM beyond ARUBA</b><br>M. Cenzato (Italy)               | <b>15:55 - 16:15</b> |
| <b>The Neurosurgeon as surgeon scientist - a lost art?</b>                                                  | <b>16:15 - 16:35</b> |

## Scientific Programme

Vascular Neurosurgery  
17:10 - 18:55

Sala Grande

### Vascular Neurosurgery 2: Controversies in Treatment Selection - When Should I Refer the Patient to My Colleague?

|                                                                                                                                                     |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Do long term follow-up studies question the 'coil first policy' in aneurysm treatment? (Anchor)</b>                                              | <b>17:10 - 17:15</b> |
| D. Barrow (United States)                                                                                                                           |                      |
| <b>Do long term follow-up studies question the 'coil first policy' in aneurysm treatment? (Interventionalist View)</b>                              | <b>17:15 - 17:25</b> |
| <b>Do long term follow-up studies question the "coil first policy" in aneurysm treatment? (Surgeons View)</b>                                       | <b>17:25 - 17:35</b> |
| V. Seifert (Germany)                                                                                                                                |                      |
| <b>Do long term follow-up studies question the "endarterectomy first policy" in treatment of carotidocclusive disease? (Anchor)</b>                 | <b>17:35 - 17:40</b> |
| G. Lanzino (United States)                                                                                                                          |                      |
| <b>Do long term follow-up studies question the 'endarterectomy first policy' in treatment of carotidocclusive disease? (Interventionalist View)</b> | <b>17:40 - 17:50</b> |
| <b>Do long term follow-up studies question the 'endarterectomy first policy' in treatment of carotidocclusive disease? (Surgeons View)</b>          | <b>17:50 - 18:00</b> |
| V. Benes Jr. (Czech Republic)                                                                                                                       |                      |
| <b>ICH: Operate on more patients vs be more selective? (Anchor)</b>                                                                                 | <b>18:00 - 18:05</b> |
| <b>ICH: Operate on more patients vs be more selective? (Surgeons View)</b>                                                                          | <b>18:05 - 18:15</b> |
| M. Zuccarello (United States)                                                                                                                       |                      |
| <b>ICH: Operate on more patients vs be more selective? (Conservative View)</b>                                                                      | <b>18:15 - 18:25</b> |
| <b>Role of endovascular vs surgery in spinal dural AVFs (Anchor)</b>                                                                                | <b>18:25 - 18:30</b> |
| J.M.C. van Dijk (Netherlands)                                                                                                                       |                      |
| <b>Role of endovascular vs surgery in spinal dural AVFs (Interventionalist View)</b>                                                                | <b>18:30 - 18:40</b> |
| <b>Role of endovascular vs surgery in spinal dural AVFs (Surgeons View)</b>                                                                         | <b>18:40 - 18:50</b> |

Neuro-oncology  
17:10 - 18:55

Sala Perla

### Neuro-oncology 2: Cerebellopontine Angle

|                                                                                            |                      |
|--------------------------------------------------------------------------------------------|----------------------|
| <b>Management of CPA Meningiomas: The Good, The Bad, and The Ugly</b>                      | <b>17:10 - 17:25</b> |
| A. Nanda (United States)                                                                   |                      |
| <b>Surgery vs. radiosurgery of vestibular schwannomas: A two-centre comparative study</b>  | <b>17:25 - 17:40</b> |
| M. Tatagiba (Germany)                                                                      |                      |
| <b>The fate of residual tumor after subtotal resection of large vestibular schwannomas</b> | <b>17:40 - 17:55</b> |
| P.-H. Roche (France)                                                                       |                      |

## Scientific Programme

|                                                                                                                                                                                               |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Hearing outcome in VS surgery</b>                                                                                                                                                          | <b>17:55 - 18:10</b> |
| <b>Management of epidermoid cysts of the CPA</b>                                                                                                                                              | <b>18:10 - 18:25</b> |
| <b>Endoscope-assisted microsurgical resection of epidermoids and dermoids</b><br>H. Schroeder (Germany)                                                                                       | <b>18:25 - 18:32</b> |
| <b>Endoscopic endonasal transclival removal of skull base tumors spreading to the posterior cranial fossa</b><br>A. Shkarubo (Russian Federation)                                             | <b>18:32 - 18:39</b> |
| <b>Vestibular Schwannoma Microsurgery for Recurrent Tumors After Radiation Therapy or Previous Surgical Resection: a comparison with exclusive surgical treatment</b><br>M. Giarletta (Italy) | <b>18:39 - 18:46</b> |
| <b>Interdisciplinary concept of treatment and training in a series of 502 vestibular schwannomas</b><br>C. Matthies (Germany)                                                                 | <b>18:46 - 18:53</b> |

Functional Neurosurgery & Radiosurgery  
17:10 - 18:55

Sala Casinò

## Functional Neurosurgery and Radiosurgery 1: Controversies in DBS

|                                                                                                                                                                                              |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Neurosurgical treatment of pain secondary to spinal injury</b>                                                                                                                            | <b>17:10 - 17:25</b> |
| <b>Thoracic outlet syndrome and its difficult diagnosis and surgery indication</b><br>E. Ferrer (Spain)                                                                                      | <b>17:25 - 17:40</b> |
| <b>Focused ultrasound</b>                                                                                                                                                                    | <b>17:40 - 17:55</b> |
| <b>Glossopharyngeal neuralgia</b><br>L. Fariselli (Italy)                                                                                                                                    | <b>17:55 - 18:10</b> |
| <b>Deep Brain Stimulation: The Influence of Gradient Directions and Pre-Defined Seeds on Deterministic and Probabilistic Fibertracking</b><br>J. Schlaier (Germany)                          | <b>18:10 - 18:17</b> |
| <b>The other side of cervical dystonia (CD): our report on 31 cases</b><br>F. Caputi (Italy)                                                                                                 | <b>18:17 - 18:24</b> |
| <b>Multimodal percutaneous treatment of trigeminal neuralgia: our experience in 1000 cases</b><br>F. Caputi (Italy)                                                                          | <b>18:24 - 18:31</b> |
| <b>Treatment of trigeminal neuralgia refractory to medical therapy: role of radiosurgery, microvascular decompression, percutaneous procedures in the modern era</b><br>M.F. Fraioli (Italy) | <b>18:31 - 18:38</b> |
| <b>Microvascular decompression for trigeminal neuralgia: preliminary results and an open invitation to join a european multicenter retrospective study</b>                                   | <b>18:38 - 18:45</b> |

## Scientific Programme

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|-------------------------------------------------------------------------------------------------------|----------------------|
| <b>Prelimbic Cortex Deep Brain Stimulation Reduces Binge Size In a Chronic Binge Eating Rat Model</b> | <b>18:45 - 18:52</b> |
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Spinal Neurosurgery  
 17:10 - 18:55

Sala Volpi

## Spinal Neurosurgery 2

|                                                                                                                                                                                                                                |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Spinal Metastases: Is Intralesional Ablation the Future? (PRO)</b><br>F. Ringel (Germany)                                                                                                                                   | <b>17:10 - 17:25</b> |
| <b>Spinal Metastases: Is Intralesional Ablation the Future? (CON)</b><br>W. Moojen (Netherlands)                                                                                                                               | <b>17:25 - 17:40</b> |
| <b>Status of endoscopic spine surgery: Experience of 10 years</b><br>J. Oertel (Germany)                                                                                                                                       | <b>17:40 - 17:50</b> |
| <b>Percutaneous Intradiscal Radio-Frequency Thermocoagulation: an Alternative to Invasive Surgery for discogenic Low Back Pain</b><br>M. Dibenedetto (Italy)                                                                   | <b>17:50 - 17:57</b> |
| <b>Significant morbidity and reoperation rates at 2 years in a prospectively enrolled lumbar discectomy population with large anular defects</b><br>G.J. Bouma (Netherlands)                                                   | <b>17:57 - 18:04</b> |
| <b>Surgery for lumbar disc herniation in individuals aged 65 and older: A multicenter observational study</b><br>S. Gulati (Norway)                                                                                            | <b>18:04 - 18:11</b> |
| <b>Outpatient lumbar microdiscectomy in France: From an economic imperative to a clinical standard - An observational study of 201 cases</b><br>B. Debono (France)                                                             | <b>18:11 - 18:18</b> |
| <b>Evidences from a literature analysis about laminoplasty in cervical spinal diseases</b><br>N. Montano (Italy)                                                                                                               | <b>18:18 - 18:25</b> |
| <b>Time factor and disc herniation size: are they really predictive for outcome in patients with cauda equina syndrome?</b><br>R. Kaiser (Czech Republic)                                                                      | <b>18:25 - 18:32</b> |
| <b>A Prospective Study of Interbody Fat Graft Application With the Anterior Contralateral Cervical Microdiscectomy to Preserve Segmental Mobility</b><br>Y. Aydin (Turkey)                                                     | <b>18:32 - 18:39</b> |
| <b>Intraoperative neurophysiological monitoring for minimally invasive percutaneous screw placement. Therapeutic implications of the stimulation of the Jamshidi needle and Kirschner wire before pedicular screws setting</b> | <b>18:39 - 18:46</b> |
| <b>Intraoperative neurophysiological monitoring for intradural spinal tumors: analysis of predictive value and relevance on surgical outcome during a ten-year experience</b><br>D. Nasi (Italy)                               | <b>18:46 - 18:53</b> |

## Scientific Programme

Pediatric Neurosurgery  
 17:10 - 18:55

Sala Pasinetti

### Pediatric Neurosurgery 2: Chiari - State of the Art

|                                                                                                                                                                                                                |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>TBD</b>                                                                                                                                                                                                     | <b>17:10 - 17:25</b> |
| <b>CHIARI I MALFORMATION: SHOULD WE OPERATE PICTURES OR CHILDREN?</b><br><b>Proposal of a diagnostic and therapeutic flow chart based on a series of 580 monoinstitutional cases</b><br>L.G. Valentini (Italy) | <b>17:25 - 17:40</b> |
| <b>Neuromonitoring in cranio-spinal decompression</b><br>F. Sala (Italy)                                                                                                                                       | <b>17:40 - 17:55</b> |
| <b>Management of Cases of Chiari Malformation Type I Associated with Hydrocephalus, A series of 16 patients</b><br>A. Elwany (Egypt)                                                                           | <b>17:55 - 18:02</b> |
| <b>Is it safe to return the bone flap after drainage of intracranial empyema?</b><br>R. Keating (United States)                                                                                                | <b>18:02 - 18:09</b> |
| <b>Use of neuronavigation systems - efficacy in shunt placement</b><br>S.M. Florea (France)                                                                                                                    | <b>18:09 - 18:16</b> |
| <b>Children's ventriculoperitoneal shunts complications in Abidjan (Côte d'Ivoire) : A retrospective study</b><br>M.Y.E. Broalet (Côte d'Ivoire)                                                               | <b>18:16 - 18:23</b> |
| <b>Radiation-free 3D head shape and volume evaluation after endoscopically assisted strip craniectomy followed by helmet therapy for scaphocephaly</b><br>G. de Jong (Netherlands)                             | <b>18:23 - 18:30</b> |
| <b>Results with the application of bioresorbable implant systems in pediatric craniofacial surgery in the context of craniosynostosis</b><br>J. Santiago (Portugal)                                            | <b>18:30 - 18:37</b> |
| <b>Diagnostic and early treatment of Craniosynostosis in neonatal patients assisted by 3D endoscopic craniectomy</b><br>J.C. Roa Montes de Oca (Belgium)                                                       | <b>18:37 - 18:44</b> |
| <b>Outcome of Neural tube Defect Surgery In an Ethiopian Hospital</b><br>A. Aklilu (Ethiopia)                                                                                                                  | <b>18:44 - 18:51</b> |

General  
 17:10 - 18:55

Sala Mangano

### Acta Neurochirurgica 'Meet the Editor' Session

General  
 17:10 - 18:55

Sala Martinelli

### Oral Presentations



## Scientific Programme

|                                                                                                                                                                                                          |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Safety of resident training in (semi-)elective tumor craniotomies - data from a prospective registry of complications and outcome</b><br>M.N. Stienen (Switzerland)                                   | <b>17:10 - 17:15</b> |
| <b>High Resolution Micro-ECoG Studies of Human Sensorimotor Cortex during Finger Movements</b><br>C.-H. Kuo (United States)                                                                              | <b>17:15 - 17:20</b> |
| <b>Microsurgical anatomy, electrophysiology, and clinical functions of the nervus intermedius. Consequences for the vestibular schwannoma surgery</b><br>A. Alfieri (Switzerland)                        | <b>17:20 - 17:25</b> |
| <b>Level Specific CE-Chirp® BAEP's: a new faster technique in neuromonitoring cochlear nerve during skull base surgery</b><br>E. Di Scipio (Italy)                                                       | <b>17:25 - 17:30</b> |
| <b>The surgical management of meningioma-vestibular schwannoma collision tumors of the cerebellopontine angle in patients with Neurofibromatosis type 2</b><br>S.D. Adib (Germany)                       | <b>17:30 - 17:35</b> |
| <b>Semisitting position in Neurosurgery - A controversy not yet solved</b><br>Y. Ceccaroni (Italy)                                                                                                       | <b>17:35 - 17:40</b> |
| <b>Tentorial incision versus retraction of the tentorial edge during the subtemporal approach: Anatomical comparison in cadaveric dissections and retrospective case study</b><br>E. Archavlis (Germany) | <b>17:40 - 17:45</b> |
| <b>Clinical characteristics and course of brain abscess</b><br>N. Hofmann (Germany)                                                                                                                      | <b>17:45 - 17:50</b> |
| <b>Is it right to use destructive procedures before decompression in cases of symptomatic trigeminal neuralgias joined with extra-axial tumors?</b><br>V. Fedirko (Ukraine)                              | <b>17:50 - 17:55</b> |
| <b>E-WIN Project 2016: Evaluating the current gender situation in neurosurgery across Europe. An interactive, multiple-level survey</b><br>A. Steklacova (Czech Republic)                                | <b>17:55 - 18:00</b> |
| <b>Positive relationship between the contact time of scalp disinfectant and reduction in post-craniotomy infections</b><br>H.L. Low (United Kingdom)                                                     | <b>18:00 - 18:05</b> |
| <b>Visual inputs modulate brain activity in language areas</b><br>J. Plata Bello (Spain)                                                                                                                 | <b>18:05 - 18:10</b> |
| <b>Vestibular schwannoma surgery learning curve: modern series of a young neurosurgeon</b><br>E. Shiban (Germany)                                                                                        | <b>18:10 - 18:15</b> |
| <b>30-day complication rate following cranioplasty: Incidence and predictors</b><br>E. Shiban (Germany)                                                                                                  | <b>18:15 - 18:20</b> |
| <b>Usefulness of routine pre-operative coagulation profile for elective craniotomy</b><br>N. Akhunzada (Pakistan)                                                                                        | <b>18:20 - 18:25</b> |

## Scientific Programme

|                                                                                                                                                                               |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Motor and language deficits correlate with Resting State fMRI networks in patients with brain tumors</b><br>E. Liouta (Greece)                                             | <b>18:25 - 18:30</b> |
| <b>Chronologic CT analysis of bone fusion and bone resorption comparing bone flap gap after craniotomy and cranioplasty</b><br>S.-H. Kang (Korea, Republic of)                | <b>18:30 - 18:35</b> |
| <b>RCTs in Neurosurgery Comparing Surgery versus Best Medical Treatment</b><br>E. Martin (Netherlands)                                                                        | <b>18:35 - 18:40</b> |
| <b>Burr hole microsurgical approach for intracranial tumors. Results of 142 consecutive cases</b><br>D.I. Pitskhelauri (Russian Federation)                                   | <b>18:40 - 18:45</b> |
| <b>Three-Dimensional Custom-made Titanium Implant In Cranioplasty Operations</b><br>O. Tehli (Turkey)                                                                         | <b>18:45 - 18:50</b> |
| <b>Application of eyetracking for objectifying attention and memory characteristics: a reference database for research in neurosurgery</b><br>G. Danilov (Russian Federation) | <b>18:50 - 18:55</b> |

Neuro-oncology  
17:10 - 18:55

Sala Zorzi

## Neuro-oncology 3: Controversies in the Management of Cerebral Metastases

### Chairs:

C. Carapella (Italy)

|                                                                                                                                                                                                                                    |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Clinical trials on brain mets</b><br>C. Carapella (Italy)                                                                                                                                                                       | <b>17:10 - 17:20</b> |
| <b>Modern Management of Rare Brain Metastases in Adults</b><br>C. Lumenta (Germany)                                                                                                                                                | <b>17:20 - 17:27</b> |
| <b>Toxicity and efficacy of Gamma Knife radiosurgery for brain metastases in melanoma patients with immune therapy</b><br>B. Gatterbauer (Austria)                                                                                 | <b>17:27 - 17:34</b> |
| <b>Analysis of prognostic factors and survival outcomes in patients affected by brain metastases treated with Gamma Knife stereotactic radiosurgery: a single institutional fifteen years' experience</b><br>C.A. Donofrio (Italy) | <b>17:34 - 17:41</b> |
| <b>5-ALA is a promising intraoperative marker for identification of tumor infiltration in the surrounding brain tissue of brain metastases</b><br>P.A. Mercea (Austria)                                                            | <b>17:41 - 17:48</b> |
| <b>Surgical intervention for intracranial metastases: worse outcomes if the primary tumour is unknown?</b>                                                                                                                         | <b>17:48 - 17:55</b> |

## Scientific Programme

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Reduction in Brain and hippocampal radiation doses by repeated radiosurgery for brain metastasis in lieu of whole brain radiotherapy: Implications for neuro-cognition</b> | <b>17:55 - 18:02</b> |
| D. Prasad (United States)                                                                                                                                                     |                      |
| <b>Multiparametric MRI for dynamic control and early recurrence signs assessment in patients with cerebral metastases after radiosurgery</b>                                  | <b>18:02 - 18:09</b> |
| V. Stepanov (Russian Federation)                                                                                                                                              |                      |
| <b>Pre-and intraoperative multimodal imaging for treatment of brain metastasis in eloquent areas: a new paradigm for microsurgical treatment?</b>                             | <b>18:09 - 18:16</b> |
| G. Raffa (Italy)                                                                                                                                                              |                      |
| <b>Clinical course specific features of pituitary metastatic lesion</b>                                                                                                       | <b>18:16 - 18:23</b> |
| D. Teslenko (Ukraine)                                                                                                                                                         |                      |
| <b>Simulation Based Consultations for patients with Cranial Tumors and Cerebrovascular Pathology</b>                                                                          | <b>18:23 - 18:30</b> |
| L. Schlachter (United States)                                                                                                                                                 |                      |
| <b>Direct evidence of the neurovascular coupling of the primary motor cortex using ultra high-frequency ultrasound imaging in human</b>                                       | <b>18:30 - 18:37</b> |
| F. Almairac (France)                                                                                                                                                          |                      |
| <b>Venous Thromboembolism after Craniotomy for Primary Malignant Brain Tumors: A National Surgical Quality Improvement Program Analysis</b>                                   | <b>18:37 - 18:44</b> |
| J.T. Senders (Netherlands)                                                                                                                                                    |                      |
| <b>A Novel Minimally Invasive Technique for iSYS1 Robot-Guided Frameless Stereotactic Brain Tumor Biopsies</b>                                                                | <b>18:44 - 18:51</b> |
| G. Minchev (Austria)                                                                                                                                                          |                      |

Pediatric Neurosurgery  
17:10 - 18:10

Sala Beatty

### Meet the Experts Seminar 4

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>17:10 - 17:30</b> |
| <b>TBD</b> | <b>17:30 - 17:50</b> |
| <b>TBD</b> | <b>17:50 - 18:10</b> |

Functional Neurosurgery & Radiosurgery  
17:10 - 18:10

Sala Kubrick

### Meet the Experts Seminar 5

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>17:10 - 17:30</b> |
| <b>TBD</b> | <b>17:30 - 17:50</b> |
| <b>TBD</b> | <b>17:50 - 18:10</b> |

## **Scientific Programme**

Neurotrauma and Critical Care  
17:10 - 18:10

Sala Bardot

### **Meet the Experts Seminar 6**

**TBD**

**17:10 - 17:30**

**TBD**

**17:30 - 17:50**

**TBD**

**17:50 - 18:10**

## Scientific Programme

### Tuesday, 03 October 2017

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Spinal Neurosurgery  
 09:00 - 10:40

Sala Grande

#### Plenary session: Spinal Neurosurgery

|                                                                                           |                      |
|-------------------------------------------------------------------------------------------|----------------------|
| <b>Surgery of intramedullary spinal cord tumors</b><br>N. Konovalov (Russian Federation)  | <b>09:00 - 09:20</b> |
| <b>Orthopaedic surgeon / neurosurgeon - or both?</b>                                      | <b>09:20 - 09:40</b> |
| <b>Decisions and dilemmas in the approach to cervical trauma</b><br>W. Peul (Netherlands) | <b>09:40 - 10:00</b> |
| <b>The pedicle screw: The good, the bad and the ugly</b>                                  | <b>10:00 - 10:20</b> |
| <b>Spinal stenosis with degenerative lesthesis: Fusion or just decompression?</b>         | <b>10:20 - 10:40</b> |

ePoster Presentations  
 09:00 - 18:40

ePoster area

#### ePosters

General  
 09:00 - 12:00

Sala Welles

#### 1st European Neurosurgery Simulation Session - ongoing sessions

not accredited

Spinal Neurosurgery  
 11:20 - 13:05

Sala Grande

#### Spinal Neurosurgery 3

|                                                                                                                                                                  |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>What is left of cervical arthroplasty?</b>                                                                                                                    | <b>11:20 - 11:35</b> |
| <b>Laminectomy and instrumented fusion in lordosis for multilevel cervical myelopathy</b>                                                                        | <b>11:35 - 11:50</b> |
| <b>Limits and merit of surgery in cervical chordomas</b>                                                                                                         | <b>11:50 - 12:05</b> |
| <b>Multidisciplinary approach to patients with cervical myelopathy: is it possible to identify the best responders to surgery?</b><br>E. Tessitore (Switzerland) | <b>12:05 - 12:20</b> |
| <b>Surgical treatment of traumatic odontoid fractures of the elderly - a morbidity and mortality analysis</b><br>A. Rienmueller (Germany)                        | <b>12:20 - 12:27</b> |

## Scientific Programme

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Aspirin Therapy Discontinuation and Intraoperative Blood Loss in Spinal Surgery: A Systematic Review</b>                                                              | <b>12:27 - 12:34</b> |
| A. Cheng (United Kingdom)                                                                                                                                                |                      |
| <b>Identifying subsets of patients with single-level degenerative disc disease for lumbar fusion: The value of prognostic tests in surgical decision making</b>          | <b>12:34 - 12:41</b> |
| V.E. Staartjes (Netherlands)                                                                                                                                             |                      |
| <b>Lumbar Fusion versus Laminectomy for Spondylolisthesis: Readmission, Reoperation, and Patient Reported Outcomes for 475 Patients from the QOD Registry</b>            | <b>12:41 - 12:48</b> |
| <b>Total Disc Replacement Vs Anterior Cervical Decompression and Fusion: A Systematic Review of Intervention outcomes with Meta-analysis</b>                             | <b>12:48 - 12:55</b> |
| C. Findlay (United Kingdom)                                                                                                                                              |                      |
| <b>Cortical trajectory TLIFs associated with less blood loss and better disposition than pedicle trajectory and posterolateral fusions: a retrospective cohort study</b> | <b>12:55 - 13:02</b> |
| D. Refai (United States)                                                                                                                                                 |                      |

Neuro-oncology  
11:20 - 13:05

Sala Perla

### Neuro-oncology 4: Extent of Resection in Glioma

#### Chairs:

N. Chiocca (United States)

|                                                                                                                 |                      |
|-----------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Management of Glioblastoma: Past, present, and future</b>                                                    | <b>11:20 - 11:35</b> |
| <b>The impact of nTMS in glioma surgery: a new perspective for a revisit of the concept of eloquence</b>        | <b>11:35 - 11:50</b> |
| A. Germanò (Italy)                                                                                              |                      |
| <b>TBD</b>                                                                                                      | <b>11:50 - 12:05</b> |
| <b>TBD</b>                                                                                                      | <b>12:05 - 12:20</b> |
| <b>Impact of repeat surgery for low-grade gliomas</b>                                                           | <b>12:20 - 12:35</b> |
| Z. Ram (Israel)                                                                                                 |                      |
| <b>Glioma surgery with intraoperative mapping - Balancing the onco-functional choice</b>                        | <b>12:35 - 12:42</b> |
| K. Almdal (Denmark)                                                                                             |                      |
| <b>Surgical resection versus watchful waiting in low-grade gliomas</b>                                          | <b>12:42 - 12:49</b> |
| A. Jakola (Sweden)                                                                                              |                      |
| <b>Insular gliomas: technical improvements, results and perspectives from a surgical series of 102 patients</b> | <b>12:49 - 12:56</b> |
| <b>Handheld Confocal Laser Endomicroscopy for Intraoperative Optical Biopsy of Brain Tumors</b>                 | <b>12:56 - 13:03</b> |
| E. Belykh (United States)                                                                                       |                      |

## Scientific Programme

General  
 11:20 - 13:05

Sala Casinò

### Networks in Neurosurgery

|                                                                                             |                      |
|---------------------------------------------------------------------------------------------|----------------------|
| <b>TBD</b>                                                                                  | <b>11:20 - 11:30</b> |
| <b>TBD</b>                                                                                  | <b>11:30 - 11:40</b> |
| <b>Presentation of NITS</b><br>F. Tomasello (Italy)                                         | <b>11:40 - 11:50</b> |
| <b>Launch of the Global Neurotrauma Outcomes Study (GNOS)</b><br>A. Kolias (United Kingdom) | <b>11:50 - 12:00</b> |
| <b>ISNTii: The revival of Ken Sugita's and Al Rhoton's legacy</b>                           | <b>12:00 - 12:10</b> |
| <b>Brainstem tumors</b><br>M. Arraez (Spain)                                                | <b>12:10 - 12:25</b> |
| <b>Pineal Region Tumours</b><br>S. Florian (Romania)                                        | <b>12:25 - 12:40</b> |
| <b>Surgical treatment of trigeminal neuralgia: What is clear and what is dark</b>           | <b>12:40 - 12:55</b> |

General  
 11:20 - 13:05

Sala Volpi

### Young Neurosurgeons' Session

**Chairs:**  
 F. Ringel (Germany)

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>11:20 - 11:35</b> |
| <b>TBD</b> | <b>11:35 - 11:50</b> |
| <b>TBD</b> | <b>11:50 - 12:05</b> |
| <b>TBD</b> | <b>12:05 - 12:20</b> |
| <b>TBD</b> | <b>12:20 - 12:35</b> |
| <b>TBD</b> | <b>12:35 - 12:50</b> |
| <b>TBD</b> | <b>12:50 - 13:05</b> |

General  
 11:20 - 13:05

Sala Pasinetti

### Neurosurgery in the Elderly - Evidence and Controversies

**Chairs:**  
 M. Berhouma (France)  
 P. Cappabianca (Italy)

## Scientific Programme

|                                                                           |                      |
|---------------------------------------------------------------------------|----------------------|
| <b>The paradigm of geriatric neurosurgery</b><br>M. Berhouma (France)     | <b>11:20 - 11:27</b> |
| <b>Brain gliomas</b><br>F. Ducray (France)                                | <b>11:27 - 11:40</b> |
| <b>Pituitary adenomas</b><br>P. Cappabianca (Italy)                       | <b>11:40 - 11:52</b> |
| <b>Craniopharyngiomas</b><br>E. Jouanneau (France)                        | <b>11:52 - 12:04</b> |
| <b>Intracranial benign tumors</b><br>M. Berhouma (France)                 | <b>12:04 - 12:16</b> |
| <b>Intracerebral and subarachnoid hemorrhage</b><br>M. Ryttefors (Sweden) | <b>12:16 - 12:29</b> |
| <b>Hydrocephalus</b>                                                      | <b>12:29 - 12:42</b> |
| <b>Degenerative cervical and lumbar spine</b><br>C. Ewald (Germany)       | <b>12:42 - 12:55</b> |
| <b>Q&amp;A</b>                                                            | <b>12:55 - 13:05</b> |

Neuro-oncology  
 11:20 - 13:05

Sala Mangano

## Neuro-oncology 5

|                                                                                                                                                                                                                  |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Meningiomas: Skull base versus non-skull base</b><br>T.R. Meling (Norway)                                                                                                                                     | <b>11:20 - 11:35</b> |
| <b>Microsurgical treatment of colloid cysts of the third ventricle</b><br>A. Konovalov (Russian Federation)                                                                                                      | <b>11:35 - 11:50</b> |
| <b>Tractography applied to cranial nerves, interest skull base tumors surgery</b><br>T. Jacquesson (France)                                                                                                      | <b>11:50 - 11:57</b> |
| <b>A Phase II of everolimus and octreotide for patients with refractory and documented progressive meningioma (CEVOREM)</b><br>T. Graillon (France)                                                              | <b>11:57 - 12:04</b> |
| <b>Effectiveness of preoperative facial nerve DTI tractography in surgery for large vestibular schwannoma : Interim results of a prospective controlled trial</b>                                                | <b>12:04 - 12:11</b> |
| <b>Large vestibular schwannoma with intracochlear extension: removal through translabyrinthine approach with facial bridge cochleostomy</b><br>C. Faccioli (Italy)                                               | <b>12:11 - 12:18</b> |
| <b>Is multisection radiosurgery more effective than single session radiosurgery to preserve the hearing in patients affected by a sporadic vestibular schwannoma? A randomized trial</b><br>L. Fariselli (Italy) | <b>12:18 - 12:25</b> |



## Scientific Programme

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Skull base chordomas: clinical outcome in a consecutive series of 45 patients with long-term follow-up and evaluation of clinical and biological prognostic factors</b><br>N. Boari (Italy)                                | <b>12:25 - 12:32</b> |
| <b>Conservative and surgical treatment of patients with pineal cysts: A prospective case series of 110 patients</b><br>M. Majovsky (Czech Republic)                                                                           | <b>12:32 - 12:39</b> |
| <b>Stereotactic hypo-fractionation Gamma Knife radiosurgery for meningioma close to anterior optic-pathways or involving the optic nerve sheath: preliminary results of an Italian multicenter study</b><br>M. Longhi (Italy) | <b>12:39 - 12:46</b> |
| <b>The impact of radiotherapy on visual attention and memory in patients with cavernous sinus meningioma: a pilot study</b><br>G. Danilov (Russian Federation)                                                                | <b>12:46 - 12:53</b> |
| <b>Surgical experience in Tentorial Menigiomas</b><br>V. Monte (Italy)                                                                                                                                                        | <b>12:53 - 13:00</b> |

General  
11:20 - 13:05

Sala Martinelli

## Oral Presentations

|                                                                                                                                                                                  |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Assessing the impact of neurosurgical physician associates in two London based major trauma centres</b><br>H. Rana (United Kingdom)                                           | <b>11:20 - 11:25</b> |
| <b>Piezosurgical bone scalpel for mini demolitive craniotomies in brain tumors surgery</b><br>I.G. Vetrano (Italy)                                                               | <b>11:25 - 11:30</b> |
| <b>Cerebral revascularization as a reliable opportunity for dealing with some cerebrovascular diseases - personal experience</b><br>V. Georgieva (Bulgaria)                      | <b>11:30 - 11:35</b> |
| <b>Cyberknife radiosurgery in cerebral arteriovenous malformations. Single center experience</b><br>A. Conti (Italy)                                                             | <b>11:35 - 11:40</b> |
| <b>Comparative case-control study of the supraorbital eyebrow and pterional approaches for clipping of ruptured and unruptured aneurisms</b><br>A. Pichugin (Russian Federation) | <b>11:40 - 11:45</b> |
| <b>Structural characteristics of the human intracranial aneurysm wall prone to rupture</b><br>S. Morel (Switzerland)                                                             | <b>11:45 - 11:50</b> |
| <b>Arteriovenous malformations - a multimodal approach algorithm. Personal experience of 244 cases. (Oral presentation)</b><br>H. Ples (Romania)                                 | <b>11:50 - 11:55</b> |
| <b>Treatment of poor grade sub-arachnoid haemorrhage trial - TOPSAT2</b><br>B.A. Gregson (United Kingdom)                                                                        | <b>11:55 - 12:00</b> |

## Scientific Programme

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|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Bilateral impaired cerebrovascular reactivity in unilateral carotid artery disease</b><br>C.H.B. van Niftrik (Switzerland)                    | <b>12:00 - 12:05</b> |
| <b>GIANT AND VERY LARGE INTRACRANIAL ANEURYSMS: SURGICAL STRATEGIES AND TECHNICAL ASPECTS</b>                                                    | <b>12:05 - 12:10</b> |
| <b>Middle cerebral artery aneurysms - A single center twenty years' experience</b><br>J. Delaunois (Belgium)                                     | <b>12:10 - 12:15</b> |
| <b>Revascularization surgery in treatment of intracranial aneurysms (six-year experience)</b><br>N. Polunina (Russian Federation)                | <b>12:15 - 12:20</b> |
| <b>Relationship of anterior cerebral artery hypoplasia/aplasia and anterior communicating artery aneurysm</b><br>I. Solmaz (Turkey)              | <b>12:20 - 12:25</b> |
| <b>Does Size matter? - Risk of rupture of small anterior circulation aneurysms</b><br>H. Bansal (India)                                          | <b>12:25 - 12:30</b> |
| <b>Surgical treatment of drug-resistant epilepsies in Moscow</b><br>I. Trifonov (Russian Federation)                                             | <b>12:30 - 12:35</b> |
| <b>A wireless neuroprosthesis for epilepsy and BCI</b><br>P. Romanelli (Italy)                                                                   | <b>12:35 - 12:40</b> |
| <b>Methodology, outcome, safety and in vivo accuracy in traditional frame-based stereoelectroencephalography</b><br>L. Van der Loo (Netherlands) | <b>12:40 - 12:45</b> |
| <b>Epilepsy Surgery in Children with Rolandic Focal Cortical Dysplasia</b><br>A. Melikyan (Russian Federation)                                   | <b>12:45 - 12:50</b> |
| <b>Hippocampal GABA transporter distribution in patients with temporal lobe epilepsy and hippocampal sclerosis</b><br>O. Schijns (Netherlands)   | <b>12:50 - 12:55</b> |
| <b>Clinical assessment of the cerebral microcirculation and its glycocalyx in temporal lobe epilepsy</b><br>R. Haeren (Netherlands)              | <b>12:55 - 13:00</b> |
| <b>3D preoperative and intraoperative multimodal imaging in epilepsy patients</b><br>K. Minkin (Bulgaria)                                        | <b>13:00 - 13:05</b> |

Vascular Neurosurgery  
11:20 - 13:05

Sala Zorzi

## Video Session on Vascular Neurosurgery: Tricks and Tips

|                                                                               |                      |
|-------------------------------------------------------------------------------|----------------------|
| <b>Temporary clipping in aneurysm surgery</b><br>A. Dehdashti (United States) | <b>11:20 - 11:30</b> |
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## Scientific Programme

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Unruptured intracranial aneurysms: tricks and tips from a hybrid surgeon</b>                                                                                                             | <b>11:30 - 11:40</b> |
| <b>Direct surgery of giant aneurysm tricks and tips</b>                                                                                                                                     | <b>11:40 - 11:50</b> |
| <b>Bypass in complex aneurysms</b><br>A. Santoro (Italy)                                                                                                                                    | <b>11:50 - 12:00</b> |
| <b>Endoscopy assisted aneurysm surgery</b><br>R. Galzio (Italy)                                                                                                                             | <b>12:00 - 12:10</b> |
| <b>Surgical Technique for Neck Clipping of Internal Carotid Artery Supraclinoid Segment Aneurysm - importance of complete exposure of the aneurysm-</b><br>T. Sugawara (Japan)              | <b>12:10 - 12:20</b> |
| <b>Endoscopic transnasal approach for a suprasellar retrochiasmatic cavernous hemangioma</b><br>P. Gaetani (Italy)                                                                          | <b>12:20 - 12:30</b> |
| <b>Usefulness of a new intraoperative laser light imaging to simultaneously visualize visible light and near-infrared fluorescence for indocyanine green angiography</b><br>T. Sato (Japan) | <b>12:30 - 12:40</b> |
| <b>Tips, bases, and pitfalls in distal trans-sylvian key-hole approach for unruptured aneurysms</b><br>R. Takeda (Japan)                                                                    | <b>12:40 - 12:50</b> |
| <b>Surgical management of medulla oblongata cavernoma</b><br>K. Ganesh (India)                                                                                                              | <b>12:50 - 13:00</b> |

Neuro-oncology  
11:20 - 12:20

Sala Beatty

### Meet the Experts Seminar 7

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>11:20 - 11:40</b> |
| <b>TBD</b> | <b>11:40 - 12:00</b> |
| <b>TBD</b> | <b>12:00 - 12:20</b> |

Neurotrauma and Critical Care  
11:20 - 12:20

Sala Kubrick

### Meet the Experts Seminar 8

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>11:20 - 11:40</b> |
| <b>TBD</b> | <b>11:40 - 12:00</b> |
| <b>TBD</b> | <b>12:00 - 12:20</b> |

## Scientific Programme

Functional Neurosurgery & Radiosurgery  
 11:20 - 12:20

Sala Bardot

### Meet the Experts Seminar 9

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>11:20 - 11:40</b> |
| <b>TBD</b> | <b>11:40 - 12:00</b> |
| <b>TBD</b> | <b>12:00 - 12:20</b> |

Corporate Symposium  
 13:25 - 14:25

Sala Casinò

### Industry-Sponsored Symposium

Corporate Symposium  
 13:25 - 14:25

Sala Volpi

### Industry-Sponsored Symposium

General  
 13:25 - 14:25

Sala Mangano

### Oral Presentations

|                                                                                                                                                                                                              |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Fourth ventricle Hemangioblastomas: surgical serie</b><br>D. Catapano (Italy)                                                                                                                             | <b>13:25 - 13:30</b> |
| <b>Ethical challenges in the introduction of novel medical devices in neurosurgery: oversight and regulation</b><br>I.S. Muskens (United States)                                                             | <b>13:30 - 13:35</b> |
| <b>Radiofrequency lesions and stimulation of anterior thalamic nucleus - two different options for treatment of intractable epilepsy</b><br>A. Sitnikov (Russian Federation)                                 | <b>13:35 - 13:40</b> |
| <b>Gamma Knife radiosurgery for glomus jugular tumors. Results on 51-treated patients followed-up for at least 36 months</b><br>M. Vitelli (Italy)                                                           | <b>13:40 - 13:45</b> |
| <b>Outcomes After Surgical Treatment Of Meningioma-associated Proptosis</b>                                                                                                                                  | <b>13:45 - 13:50</b> |
| <b>The diagnostic accuracy of detecting malignant transformation of low-grade glioma using O-(2-[18F]fluoroethyl)-L-tyrosine positron emission tomography - A retrospective study</b><br>A. Bashir (Denmark) | <b>13:50 - 13:55</b> |
| <b>Maximal Resection Improves Survival in Butterfly Glioblastoma: The Case for Aggressive Surgical Strategies</b>                                                                                            | <b>13:55 - 14:00</b> |
| <b>Surgical strategies in the management of lateral ventricle tumors</b><br>A. Fayed (Egypt)                                                                                                                 | <b>14:00 - 14:05</b> |

## Scientific Programme

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|---------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Results of minimally invasive spinal decompression for multilevel lumbar spinal stenosis</b><br>N. Montano (Italy)                 | <b>14:05 - 14:10</b> |
| <b>Surgery around the neuroforamen. Indications and technique for dumbbell pathology in the cervical area</b><br>S. Ferraresi (Italy) | <b>14:10 - 14:15</b> |
| <b>Laminectomy and Fusion for Advanced and Multilevel Cervical Stenotic Myelopathy (CSM)</b><br>A.H. Bajamal (Indonesia)              | <b>14:15 - 14:20</b> |
| <b>Tarlov Cysts: more than meets the eye</b><br>R. Rasschaert (Belgium)                                                               | <b>14:20 - 14:25</b> |

Neuro-oncology  
 13:25 - 14:25

Sala Martinelli

## Oral Presentations

|                                                                                                                                                                                        |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>The structure, function and inhibition of Epidermal Growth Factor Receptor in Glioblastoma</b><br>R. Mitchell (Australia)                                                           | <b>13:25 - 13:30</b> |
| <b>Implementation of an Infection Prevention Bundle to Reduce Surgical Site Infections Following Brain Surgery</b><br>N. Wimmer (Germany)                                              | <b>13:30 - 13:35</b> |
| <b>Olfactory nerve preservation in olfactory groove meningiomas (OGM). Is it a viable option? (Oral Presentation)</b><br>A.V. Ciurea (Romania)                                         | <b>13:35 - 13:40</b> |
| <b>The role of 5-ALA (Gliolan) induced fluorescence in brain tumors biopsy</b><br>C. Matei (Romania)                                                                                   | <b>13:40 - 13:45</b> |
| <b>The impact of DTI fiber tracking of the corticospinal tract based on navigated transcranial magnetic stimulation on surgery of motor-eloquent brain lesions</b><br>G. Raffa (Italy) | <b>13:45 - 13:50</b> |
| <b>HEAT SHOCK PROTEIN (HSP) LEVELS IN SOLID AND LIQUID BIOPSIES FROM PATIENTS WITH BRAIN TUMORS BEFORE AND AFTER ABLATIVE SURGERY: A PILOT STUDY</b><br>F. Graziano (Italy)            | <b>13:50 - 13:55</b> |
| <b>Role of Dkk-3 and Claudin-5 in meningiomas as potential and innovative therapeutic targets</b><br>A. Germanò (Italy)                                                                | <b>13:55 - 14:00</b> |
| <b>Fluorescein-assisted awake stereotactic needle biopsy of contrast-enhancing brain tumors: safety, feasibility and review of the literature</b><br>G. di Nuzzo (Italy)               | <b>14:00 - 14:05</b> |
| <b>Fluorescein-guided surgery for high grade glioma resection: an intraoperative "contrast-enhancer"</b><br>G. di Nuzzo (Italy)                                                        | <b>14:05 - 14:10</b> |

## Scientific Programme

|                                                                                                                                             |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Glioma Associated Stem Cells: a patient-based in vitro approach to identify novel LGG prognostic factors and suggest novel therapies</b> | <b>14:10 - 14:15</b> |
| T. Ius (Italy)                                                                                                                              |                      |
| <b>The surgical management of primary cerebellopontine angle Melanocytoma</b>                                                               | <b>14:15 - 14:20</b> |
| S.D. Adib (Germany)                                                                                                                         |                      |
| <b>Subtemporal approach for gross total resection of retrochiasmatic craniopharyngiomas - our experience on 30 cases</b>                    | <b>14:20 - 14:25</b> |
| Ł. Robak (Poland)                                                                                                                           |                      |

General  
 14:00 - 18:00

Sala Welles

### 1st European Neurosurgery Simulation Session - ongoing sessions

not accredited

Neurotrauma and Critical Care  
 14:35 - 16:15

Sala Grande

### Plenary Session: Neurotrauma and Critical Care - Advances in Traumatic Brain Injury

|                                                                              |                      |
|------------------------------------------------------------------------------|----------------------|
| <b>Monitoring intracranial pressure: Whats's new in 2017?</b>                | <b>14:35 - 14:55</b> |
| N. Stocchetti (Italy)                                                        |                      |
| <b>New horizons in the management of neurotrauma</b>                         | <b>14:55 - 15:15</b> |
| <b>TBD</b>                                                                   | <b>15:15 - 15:35</b> |
| <b>TBD</b>                                                                   | <b>15:35 - 15:55</b> |
| R. Hayes (United States)                                                     |                      |
| <b>Advances in TBI Research: Evidence For Neocortical Circuit Disruption</b> | <b>15:55 - 16:15</b> |
| J.T. Povlishock (United States)                                              |                      |

Neuro-oncology  
 16:55 - 18:40

Sala Grande

### Neuro-oncology 5: Imaging Brain Cancer

#### Chairs:

J. Tonn (Germany)

|                                  |                      |
|----------------------------------|----------------------|
| <b>Ultrasound guided surgery</b> | <b>16:55 - 17:10</b> |
| F. DiMeco (Italy)                |                      |
| <b>Molecular imaging</b>         | <b>17:10 - 17:25</b> |
| J. Tonn (Germany)                |                      |

## Scientific Programme

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Fluorescence Guided Neurosurgery</b><br>T. Kiris (Turkey)                                                                                                                                                                           | <b>17:25 - 17:40</b> |
| <b>Brain connectivity and gliomas</b>                                                                                                                                                                                                  | <b>17:40 - 17:55</b> |
| <b>Comparative characteristics of the sensitivity of fluorescent diagnostics in surgery of gliomas and meningiomas of varying grades of malignancy and metastases of different histologic types</b><br>A. Potapov (Russian Federation) | <b>17:55 - 18:10</b> |
| <b>Functional surgical approach of giant insular lower grade gliomas: impact on extent of resection and patient functional outcome</b><br>M. Rossi (Italy)                                                                             | <b>18:10 - 18:17</b> |
| <b>MRI Radiomics Analysis of Molecular Alternation in Low-Grade Gliomas</b><br>B. Shofty (Israel)                                                                                                                                      | <b>18:17 - 18:24</b> |
| <b>Is navigated ultrasound the most efficient intraoperative imaging technique?</b>                                                                                                                                                    | <b>18:24 - 18:31</b> |
| <b>An imaging biomarker measuring the regularity of tumor surface on 3D T1-weighted MRIs predicts survival of glioblastoma patients and allows for patient selection for surgery</b>                                                   | <b>18:31 - 18:38</b> |

Spinal Neurosurgery  
16:55 - 18:40

Sala Perla

## Spinal Neurosurgery 4

|                                                                                                                                                                                                     |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Treatment of intraspinal vascular lesions (PRO)</b>                                                                                                                                              | <b>16:55 - 17:10</b> |
| <b>Treatment of intraspinal vascular lesions (CON)</b>                                                                                                                                              | <b>17:10 - 17:25</b> |
| <b>Diagnostic capability and therapeutic efficacy of the new classification of lumbar degenerative microinstability</b>                                                                             | <b>17:25 - 17:40</b> |
| <b>Surgery of sacral chordomas</b><br>P. Ruggieri (Italy)                                                                                                                                           | <b>17:40 - 17:55</b> |
| <b>Treatment of Chronic Low Back Pain via Ablation of the Basivertebral Nerve: Results of a multicenter, randomized, double blinded, sham controlled trial (SMART Trial)</b><br>B. Meyer (Germany)  | <b>17:55 - 18:02</b> |
| <b>Minimally Invasive versus Open Surgery for Grade I Degenerative Lumbar Spondylolisthesis: Analysis Of the Quality Outcomes Database</b>                                                          | <b>18:02 - 18:09</b> |
| <b>Interspinous Process Fixation in ALIF/LLIF: 2-year Outcomes from a Prospective Randomized Multi-Center Trial</b><br>R. DenHaese (United States)                                                  | <b>18:09 - 18:16</b> |
| <b>Demineralized Bone Matrix (DBM) as a Bone Void Filler in Lumbar Interbody Fusion: A Prospective Pilot Study of Simultaneous DBM and Autologous Bone Grafts</b><br>S.-H. Kim (Korea, Republic of) | <b>18:16 - 18:23</b> |

## Scientific Programme

**Minimally invasive arthrodosis with TLIF(transforaminal lumbar interbody fusion) and cannulated screws in isthmic and degenerative spondylolisthesis. Our experience since 2004** **18:23 - 18:30**

**Achieving Optimal Outcome for Lumbar Spondylolisthesis: Randomized Controlled Trial Results and Future Directions** **18:30 - 18:37**

Z. Ghogawala (United States)

Functional Neurosurgery & Radiosurgery  
 16:55 - 18:40

Sala Casinò

## Functional Neurosurgery and Radiosurgery 2: New Trends in Functional Neurosurgery

**TBD** **16:55 - 17:10**

**Robotic-assisted stereotactic neurosurgery for DBS and epilepsy** **17:10 - 17:25**

P. Kubben (Netherlands)

**TBD** **17:25 - 17:40**

**Directional DBS: a new standard?** **17:40 - 17:55**

**Technological innovations in DBS: possible impact on clinical efficacy** **17:55 - 18:10**

A. Landi (Italy)

**Microvascular decompression vs gamma knife radiosurgery for trigeminal neuralgia; a meta-analysis** **18:10 - 18:17**

A. Boukas (United Kingdom)

**Stereotactic Radiosurgery for Type 1 versus Type 2 Trigeminal Neuralgia: A Matched Cohort Study** **18:17 - 18:24**

C.-J. Chen (United States)

**Spinal cord Stimulation for treatment of neuropathic pain in failed back surgery syndrom: a ten years experience using percutaneous leads insertion** **18:24 - 18:31**

D. Morelli (Belgium)

**Directional leads - a technical option leading to a change of concept in deep brain stimulation?** **18:31 - 18:38**

C. Matthies (Germany)

General  
 16:55 - 18:40

Sala Volpi

## EANS AGM

Neuro-oncology  
 16:55 - 18:40

Sala Pasinetti

## Neuro-oncology 6: Cranio-vertebral Junction



## Scientific Programme

|                                                                                                                                                                                                                     |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Occipito-cervical approaches</b><br>M. Fornari (Italy)                                                                                                                                                           | <b>16:55 - 17:10</b> |
| <b>Combined strategies for complex central skull base lesions</b>                                                                                                                                                   | <b>17:10 - 17:25</b> |
| <b>Endoscopic approach to the clivus</b><br>J. Ensenat (Spain)                                                                                                                                                      | <b>17:25 - 17:40</b> |
| <b>Endoscopic endonasal approach for craniovertebral junction pathologies: Myth and truth in clinical series and personal experience</b><br>M. Visocchi (Italy)                                                     | <b>17:40 - 17:47</b> |
| <b>Management of Craniovertebral junction Anomalies- experience of 253 cases</b><br>S.K.N. Khan (Bangladesh)                                                                                                        | <b>17:47 - 17:54</b> |
| <b>Combined endoscopic endonasal odontoidectomy and posterior occipito-cervical fusion in a single-stage surgery for cranio-vertebral junction (CVJ) diseases</b><br>F. Esposito (Italy)                            | <b>17:54 - 18:01</b> |
| <b>Extended endoscopic endonasal approach for anterior cranio-vertebral junction lesions: Lesson learned and technical nuances</b><br>M. Iacoangeli (Italy)                                                         | <b>18:01 - 18:08</b> |
| <b>Comparison of microscopic transoral vs endoscopic endonasal odontoidectomy for fixed anterior compression of the cervico-medullary junction</b><br>N. Paidakakos (Italy)                                         | <b>18:08 - 18:15</b> |
| <b>Reconstruction of Skull base defects in endonasal endoscopic approaches</b><br>B. Pashaev (Russian Federation)                                                                                                   | <b>18:15 - 18:22</b> |
| <b>Endoscopic Transnasal Transseptal Approach with Posterior Nasal Spine removal: a wide surgical corridor to the Craniovertebral Junction and Odontoid. Technical note and case series</b><br>Z. Rossini (Italy)   | <b>18:22 - 18:29</b> |
| <b>Endonasal endoscopic odontoidectomy (EEO) to manage pathologies of the anterior craniocervical junction: analytical review of the cases recorded in 3 European neurosurgical centers</b><br>S. Chibbaro (France) | <b>18:29 - 18:36</b> |

General  
16:55 - 18:40

Sala Mangano

## Oral Presentations

|                                                                                                     |                      |
|-----------------------------------------------------------------------------------------------------|----------------------|
| <b>History Axel Perneczky and his MIN Concept</b><br>K. Resch (Austria)                             | <b>16:55 - 17:02</b> |
| <b>Endoscope-assisted microvascular decompression in hemifacial spasm</b><br>H. Schroeder (Germany) | <b>17:02 - 17:09</b> |

## Scientific Programme

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Endoscopic bimanual and sharp dissection technique for total resection of colloid cysts</b><br>H. Schroeder (Germany)                                                                                                        | <b>17:09 - 17:14</b> |
| <b>Neurosurgeons' Socioeconomic Status Across Europe</b><br>N. Alshafai (Canada)                                                                                                                                                | <b>17:14 - 17:19</b> |
| <b>Testing the Efficacy of Simulation in Neurosurgical Education: first results of the SENSE trial</b><br>A.N. Amr (United Kingdom)                                                                                             | <b>17:19 - 17:24</b> |
| <b>Making fetish of neuroimaging and underestimation of clinical data: how to resolve a malicious controversy of modern neurosurgery</b><br>L. Likhterman (Russian Federation)                                                  | <b>17:24 - 17:29</b> |
| <b>Spinal Tumor Surgery without Neurophysiological Monitoring in a Developing Country Nepal: An Early Experience</b>                                                                                                            | <b>17:29 - 17:34</b> |
| <b>Possibilities of minimally invasive transorbital approaches and intraoperative neuronavigation in patients' surgical treatment with thyroid eye disease</b><br>O. Levchenko (Russian Federation)                             | <b>17:34 - 17:39</b> |
| <b>Perforators of the Upper Cerebellopontine Angle and their Role in the Management of Trigeminal Neuralgia with Microvascular Decompression: The Myth of the Perforator-Free Zone</b><br>A. Bernardo (United States)           | <b>17:39 - 17:44</b> |
| <b>Development of the Pediatric Cranial Venous System and Its Clinical Relevance: A Comprehensive Multicenter Study</b><br>A. Bernardo (United States)                                                                          | <b>17:44 - 17:49</b> |
| <b>Anaesthesia for awake neurosurgery and application of therapeutic communication with hypnosis-our experiences</b><br>J. Markovic Bozic (Slovenia)                                                                            | <b>17:49 - 17:54</b> |
| <b>Endoscopic microvascular decompression with transposition technique for trigeminal neuralgia and hemifacial spasm</b><br>F. Komatsu (Japan)                                                                                  | <b>17:54 - 17:59</b> |
| <b>Value Based Medicine- Ethical issues in daily practice</b><br>A. Ammar (Saudi Arabia)                                                                                                                                        | <b>17:59 - 18:04</b> |
| <b>Evaluation of Microsurgical Performance Under Sleep Deprivation with the NeuroTouch Simulator</b><br>A. Micko (Austria)                                                                                                      | <b>18:04 - 18:09</b> |
| <b>Could distal spinal cord transection be a definite solution for tethered cord syndrome patients? A preliminary report of 5 patients</b><br>K.S. Han (Netherlands)                                                            | <b>18:09 - 18:14</b> |
| <b>Isotelesis in Neurosurgery: The Convergence of Human and Machine Factors in the Operating Room</b><br>S. Koga (United States)                                                                                                | <b>18:14 - 18:19</b> |
| <b>Evaluating the impact of the World Federation of Neurosurgical Societies (WFNS) neurosurgical equipment donation programme on neurosurgical practice in low and middle income countries</b><br>S. Venturini (United Kingdom) | <b>18:19 - 18:24</b> |

## Scientific Programme

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|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Anatomical and clinical significance of carotico-clinoid ligament from the perspective of endoscopic endonasal surgery</b><br>T. Nakai (Japan) | <b>18:24 - 18:29</b> |
| <b>The gap between the neurosurgical OR and a virtual simulator: EVD as a paradigm</b><br>T.F. Galbiati (Italy)                                   | <b>18:29 - 18:34</b> |
| <b>radiofrequency thermocoagulation rhizotomy for trigeminal neuralgia about 50 cases. Colmar's experience</b><br>Y. Canton Kessely (France)      | <b>18:34 - 18:39</b> |

Neurotrauma and Critical Care  
16:55 - 18:40

Sala Martinelli

## Oral Presentations

|                                                                                                                                                                                                                  |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Risk of neurodegenerative disease after traumatic brain injury in working-aged persons: a Finnish nationwide study</b><br>R. Raj (Finland)                                                                    | <b>16:55 - 17:00</b> |
| <b>Proper cerebral perfusion pressure of the decompressive craniectomized patients with traumatic brain injury</b>                                                                                               | <b>17:00 - 17:05</b> |
| <b>Chondroitinase ABC for Neurological Recovery after Acute Brain Injury: Systematic Review and Meta-Analyses of Preclinical Studies</b><br>C.H. Koh (United Kingdom)                                            | <b>17:05 - 17:10</b> |
| <b>Battling Craniofacial Injuries In Cricket: A Reality And Need For Reforms</b><br>M. Tripathi (India)                                                                                                          | <b>17:10 - 17:15</b> |
| <b>A Systematic Review of the Usefulness of Glial Fibrillary Acidic Protein (GFAP) for Predicting Acute Intracranial Lesions following Head Trauma</b><br>T. Luoto (Finland)                                     | <b>17:15 - 17:20</b> |
| <b>Is there a place for invasive monitoring of the Intra-Cranial Pressure (ICP) in severe brain traumatism in the infant under one year old? A review</b><br>A. Rolland (France)                                 | <b>17:20 - 17:25</b> |
| <b>Neurotrauma after Jumping Over the United States-Mexico Border Wall: Demographics and Cost Analysis</b><br>W. Ramey (United States)                                                                           | <b>17:25 - 17:30</b> |
| <b>Feasibility of Telemetric Intracranial Pressure Monitoring in the Neuro Intensive Care Unit</b><br>A. Lilja-Cyron (Denmark)                                                                                   | <b>17:30 - 17:35</b> |
| <b>Traumatic brain injury-a leading cause of Death in pakistan. A prospective study</b><br>A. Fatima (Pakistan)                                                                                                  | <b>17:35 - 17:40</b> |
| <b>Age comparative analysis of unilateral chronic SDH in terms of presenting features, itiology, radiology and prognosis after single burr hole craniostomy with irrigation and drainage</b><br>M. Nagar (India) | <b>17:40 - 17:45</b> |

## Scientific Programme

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Guideline of Management of Severe Head Injury in Pregnancy</b><br>A.A. Fauzi (Indonesia)                                                                                         | <b>17:45 - 17:50</b> |
| <b>Prevalence of Concomitant Cranio-Spinal Injury: A Systematic Review</b><br>M. Pendrich (United Kingdom)                                                                          | <b>17:50 - 17:55</b> |
| <b>Can we manage safely and efficiently chronic subdural hematomas at lower cost</b><br>S. Bakhti (Algeria)                                                                         | <b>17:55 - 18:00</b> |
| <b>Risk factors for early reoperation of chronic subdural hematomas</b><br>B.M. Kwinta (Poland)                                                                                     | <b>18:00 - 18:05</b> |
| <b>Decompressive Craniectomy: where should we stop?</b><br>A. Di Rienzo (Italy)                                                                                                     | <b>18:05 - 18:10</b> |
| <b>Subdural hygroma with mass effect after several brain injury</b><br>S. Zuev (Russian Federation)                                                                                 | <b>18:10 - 18:15</b> |
| <b>Incidence of post-decompressive craniectomy hydrocephalus after traumatic brain injury: Is duraplasty a risk factor?</b>                                                         | <b>18:15 - 18:20</b> |
| <b>Detection of mitochondrial dysfunction and cerebral ischaemia in severe traumatic brain injury: A microdialysis study</b><br>R. Singla (India)                                   | <b>18:20 - 18:25</b> |
| <b>Passive Leg Raising in Neurointensive Care Patients. A Prospective Trial</b><br>M. Bauer (Austria)                                                                               | <b>18:25 - 18:30</b> |
| <b>‘What goes around, comes around...’ An assessment of referral patterns and the national compliance with NICE guidance for traumatic brain injury</b><br>L. Shen (United Kingdom) | <b>18:30 - 18:35</b> |
| <b>The role of anticoagulants and platelet inhibitors in the treatment of chronic subdural hematoma - a computer assisted volumetric 3D analysis</b><br>A.M. Bohrer (Germany)       | <b>18:35 - 18:40</b> |

Vascular Neurosurgery  
16:55 - 18:40

Sala Zorzi

## Joint Session: EANS and ESC Stroke Council

|                                                                                                                       |                      |
|-----------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Interventional treatment of acute ischemic stroke</b><br>M. Mazighi (France)                                       | <b>16:55 - 17:10</b> |
| <b>Neurosurgical treatment of hemorrhagic stroke</b><br>A. Raabe (Switzerland)                                        | <b>17:10 - 17:25</b> |
| <b>Cardiovascular complications after stroke</b>                                                                      | <b>17:25 - 17:40</b> |
| <b>Acute cardiac complications after subarachnoid haemorrhage in the neuro ICU</b><br>S. Amin-Hanjani (United States) | <b>17:40 - 17:55</b> |

## Scientific Programme

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|------------------------------------------------------------|----------------------|
| <b>Novel oral anticoagulants in stroke prevention</b>      | <b>17:55 - 18:10</b> |
| P. Widimsky (Czech Republic)                               |                      |
| <b>Vascular and cardiac changes after experimental SAH</b> | <b>18:10 - 18:25</b> |
| R. Xu (Germany)                                            |                      |
| <b>Atrial fibrillation and stroke</b>                      | <b>18:25 - 18:40</b> |

Vascular Neurosurgery  
 16:55 - 17:55

Sala Beatty

### Meet the Experts Seminar 10

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>16:55 - 17:15</b> |
| <b>TBD</b> | <b>17:15 - 17:35</b> |
| <b>TBD</b> | <b>17:35 - 17:55</b> |

Spinal Neurosurgery  
 16:55 - 17:55

Sala Kubrick

### Meet the Experts Seminar 11: Cervical Deformity Surgery

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>16:55 - 17:15</b> |
| <b>TBD</b> | <b>17:15 - 17:35</b> |
| <b>TBD</b> | <b>17:35 - 17:55</b> |

Pediatric Neurosurgery  
 16:55 - 17:55

Sala Bardot

### Meet the Experts Seminar 12

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>16:55 - 17:15</b> |
| <b>TBD</b> | <b>17:15 - 17:35</b> |
| <b>TBD</b> | <b>17:35 - 17:55</b> |

## Scientific Programme

### Wednesday, 04 October 2017

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Functional Neurosurgery & Radiosurgery  
09:00 - 10:40

Sala Grande

#### Plenary session: Functional Neurosurgery and Radiosurgery

##### Chairs:

B. Lippitz (Germany)

|                      |                      |
|----------------------|----------------------|
| <b>TBD</b>           | <b>09:00 - 09:20</b> |
| <b>TBD</b>           | <b>09:20 - 09:40</b> |
| <b>TBD</b>           | <b>09:40 - 10:00</b> |
| <b>TBD</b>           | <b>10:00 - 10:20</b> |
| <b>TBD</b>           | <b>10:20 - 10:40</b> |
| B. Lippitz (Germany) |                      |

ePoster Presentations  
09:00 - 18:40

ePoster area

#### ePosters

General  
09:00 - 12:00

Sala Welles

#### 1st European Neurosurgery Simulation Session - ongoing sessions

not accredited

Vascular Neurosurgery  
11:20 - 13:05

Sala Grande

#### Vascular Neurosurgery 3: Technical Advances in Cerebrovascular Neurosurgery

##### Chairs:

M. Zuccarello (United States)

|                                                                                  |                      |
|----------------------------------------------------------------------------------|----------------------|
| <b>Revisiting ophthalmic aneurysm treatment - endovascular vs. microsurgical</b> | <b>11:20 - 11:35</b> |
| B. Welch (United States)                                                         |                      |
| <b>Complication avoidance in aneurysm surgery</b>                                | <b>11:35 - 11:50</b> |
| D. Barrow (United States)                                                        |                      |
| <b>Future developments of endovascular devices</b>                               | <b>11:50 - 12:05</b> |
| J. de Vries (Netherlands)                                                        |                      |

## Scientific Programme

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|------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Antifibrinolytics in rebleeding prevention after aneurysmal rupture - pros and cons</b>                             | <b>12:05 - 12:20</b> |
| <b>Results PILOT study SELANA high flow bypass</b>                                                                     | <b>12:20 - 12:35</b> |
| A. van der Zwan (Netherlands)                                                                                          |                      |
| <b>Nimodipine microparticles to enhance recovery while reducing toxicity after subarachnoid hemorrhage</b>             | <b>12:35 - 12:45</b> |
| D. Hanggi (Germany)                                                                                                    |                      |
| <b>Brainstem hemangioblastomas</b>                                                                                     | <b>12:45 - 12:55</b> |
| <b>Efficacy of transcranial motor evoked potential monitoring during clipping of unruptured intracranial aneurysms</b> | <b>12:55 - 13:02</b> |
| S. Ille (Germany)                                                                                                      |                      |

Neuro-oncology  
11:20 - 13:05

Sala Perla

### Neuro-oncology 7: Endoscopic or Microscopic Approaches to Skull Base

|                                                                                                                 |                      |
|-----------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Endoscopic endonasal surgery for craniopharyngiomas</b>                                                      | <b>11:20 - 11:35</b> |
| L.M. Cavallo (Italy)                                                                                            |                      |
| <b>TBD</b>                                                                                                      | <b>11:35 - 11:50</b> |
| <b>TBD</b>                                                                                                      | <b>11:50 - 12:05</b> |
| F. Gentili (Canada)                                                                                             |                      |
| <b>TBD</b>                                                                                                      | <b>12:05 - 12:20</b> |
| P. Mortini (Italy)                                                                                              |                      |
| <b>Transorbital and combined approaches to orbital region: Target and corridor</b>                              | <b>12:20 - 12:35</b> |
| <b>TBD</b>                                                                                                      | <b>12:35 - 12:50</b> |
| <b>Differential diagnosis and surgical results in vascular malformations within the craniocervical junction</b> | <b>12:50 - 12:57</b> |
| R. Firsching (Germany)                                                                                          |                      |
| <b>Endoscopic Transsphenoidal Approach to Clivus Chordomas and Chondrosarcomas</b>                              | <b>12:57 - 13:04</b> |
| I. Anik (Turkey)                                                                                                |                      |

Neurotrauma and Critical Care  
11:20 - 13:05

Sala Casinò

### Neurotrauma and Critical Care 2: Controversies in Neurotrauma

|                                                                      |                      |
|----------------------------------------------------------------------|----------------------|
| <b>"The 'evidence' for TBI management in ICU</b>                     | <b>11:20 - 11:35</b> |
| <b>Post-traumatic ventriculomegaly and decompressive craniectomy</b> | <b>11:35 - 11:50</b> |
| K. Fountas (Greece)                                                  |                      |

## Scientific Programme

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>The "trouble" with cranioplasty: why, when, how?</b>                                                                                                                        | <b>11:50 - 12:05</b> |
| J. Posti (Finland)                                                                                                                                                             |                      |
| <b>Management of "moderate" TBI</b>                                                                                                                                            | <b>12:05 - 12:20</b> |
| A. Belli (United Kingdom)                                                                                                                                                      |                      |
| <b>The role of corticosteroids in the treatment of chronic subdural hematomas: Trial protocol to advance on an ongoing debate</b>                                              | <b>12:20 - 12:27</b> |
| D. Holl (Netherlands)                                                                                                                                                          |                      |
| <b>Update on Compliance Program for American Association of Neurological Surgeons and Congress of Neurosurgeons Endorsed Guidelines for Management of Acute Cranial Trauma</b> | <b>12:27 - 12:34</b> |
| T. Ryken (United States)                                                                                                                                                       |                      |
| <b>Impact of ICP lowering therapies and metabolic support in outcome improvement in severe pediatric TBI : a single centre prospective study of 75 cases</b>                   | <b>12:34 - 12:41</b> |
| D. Gupta (India)                                                                                                                                                               |                      |
| <b>Quantitative CT in outcome prediction in TBI</b>                                                                                                                            | <b>12:41 - 12:48</b> |
| A. Lagares (Spain)                                                                                                                                                             |                      |
| <b>Trauma-induced Coagulopathy is Associated with Higher Mortality than Antithrombotic-Medication-Associated Coagulopathy in Traumatic Brain Injury</b>                        | <b>12:48 - 12:55</b> |
| K.H. Sitoci-Ficici (Germany)                                                                                                                                                   |                      |
| <b>Brain contusions, personal perspective of Italian neurosurgeon: Italian Society of Neurosurgery Survey</b>                                                                  | <b>12:55 - 13:02</b> |
| C. Iaccarino (Italy)                                                                                                                                                           |                      |

Spinal Neurosurgery  
11:20 - 13:05

Sala Volpi

## Spinal Neurosurgery 5

|                                                                                                                                                   |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Infections: Is Surgery the Best Treatment Option? (PRO)</b>                                                                                    | <b>11:20 - 11:35</b> |
| <b>Infections: Is Surgery the Best Treatment Option? (CON)</b>                                                                                    | <b>11:35 - 11:50</b> |
| <b>TBD</b>                                                                                                                                        | <b>11:50 - 12:05</b> |
| <b>TBD</b>                                                                                                                                        | <b>12:05 - 12:20</b> |
| <b>Management of deep infection after instrumentation on spine surgery: risk factors and therapy</b>                                              | <b>12:20 - 12:27</b> |
| M. Dobran (Italy)                                                                                                                                 |                      |
| <b>Low-grade infection in spinal instrumentation: Is this the real cause of screw loosening?</b>                                                  | <b>12:27 - 12:34</b> |
| M. Issa (Germany)                                                                                                                                 |                      |
| <b>Importance of restoration of segmental lordosis in Interbody fusions: analysis of a series of 346 cases with focus on the negative results</b> | <b>12:34 - 12:41</b> |
| G. Del Moro (Italy)                                                                                                                               |                      |



## Scientific Programme

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|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Comparison of infection control after instrumentation for pyogenic spondylodiscitis of the thoracolumbar spine with and without discectomy</b> | <b>12:41 - 12:48</b> |
| B. Schatlo (Germany)                                                                                                                              |                      |
| <b>Surgical treatment of intramedullary spinal cord ependymomas in the neuromonitoring era: Results on 100 patients</b>                           | <b>12:48 - 12:55</b> |
| F. Sala (Italy)                                                                                                                                   |                      |
| <b>Transforaminal endoscopic discectomy for thoracic disc herniation</b>                                                                          | <b>12:55 - 13:02</b> |
| R. Saftic (Croatia)                                                                                                                               |                      |

Functional Neurosurgery & Radiosurgery  
 11:20 - 13:05

Sala Pasinetti

### Functional Neurosurgery and Radiosurgery 3: Epilepsy Surgery

|                                                                                                                     |                      |
|---------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Neurostimulation in the treatment of refractory epilepsy</b>                                                     | <b>11:20 - 11:35</b> |
| D. Van Roost (Belgium)                                                                                              |                      |
| <b>Toward new paradigms in assessing and monitoring the human self</b>                                              | <b>11:35 - 11:50</b> |
| K. Schaller (Switzerland)                                                                                           |                      |
| <b>Stereo-EEG in children</b>                                                                                       | <b>11:50 - 12:05</b> |
| G. Lo Russo (Italy)                                                                                                 |                      |
| <b>Neuromodulation</b>                                                                                              | <b>12:05 - 12:20</b> |
| <b>TBD</b>                                                                                                          | <b>12:20 - 12:35</b> |
| <b>Vertical paramedian hemispherotomy</b>                                                                           | <b>12:35 - 12:50</b> |
| C. Raftopoulos (Belgium)                                                                                            |                      |
| <b>VNS therapy - early outcomes of Aspire SR®</b>                                                                   | <b>12:50 - 12:57</b> |
| P.A. Dhahri (United Kingdom)                                                                                        |                      |
| <b>Vagus nerve stimulation therapy for refractory epilepsy: our experience in 300 consecutive operated patients</b> | <b>12:57 - 13:04</b> |
| M. Gorgan (Romania)                                                                                                 |                      |

Vascular Neurosurgery  
 11:20 - 13:05

Sala Mangano

### Oral Presentations

|                                                                                                 |                      |
|-------------------------------------------------------------------------------------------------|----------------------|
| <b>Infarct volume predicts outcome in malignant hemispheric stroke</b>                          | <b>11:20 - 11:25</b> |
| N. Hecht (Germany)                                                                              |                      |
| <b>Management and outcome of patients with intraoperative rupture of intracranial aneurysms</b> | <b>11:25 - 11:30</b> |
| G. Sharma (Nepal)                                                                               |                      |
| <b>Internal Maxillary Bypass for Complex Pediatric Aneurysms</b>                                | <b>11:30 - 11:35</b> |
| L. Wang (China)                                                                                 |                      |

## Scientific Programme

|                                                                                                                                                                                      |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Internal Maxillary Artery Bypass with Radial Artery Graft Treatment of Giant Intracranial Aneurysms</b><br>L. Wang (China)                                                        | <b>11:35 - 11:40</b> |
| <b>Virtual cerebral aneurysm clipping with real-time haptic force feedback in neurosurgical education</b><br>M. Gmeiner (Austria)                                                    | <b>11:40 - 11:45</b> |
| <b>Unruptured paraclinoid aneurysm treatment effects on visual function: a systematic review and meta-analysis</b>                                                                   | <b>11:45 - 11:50</b> |
| <b>Combined endovascular and microsurgical treatment for cerebral dural arteriovenous fistulas in the hybrid operating room</b><br>B. Grüter (Switzerland)                           | <b>11:50 - 11:55</b> |
| <b>Magnetoencephalography investigation of memory deficits after aneurysmal subarachnoid hemorrhage</b><br>L. da Costa (Canada)                                                      | <b>11:55 - 12:00</b> |
| <b>Initial treatment strategy for intracranial mycotic aneurysms: Literature review</b><br>M. Ohtake (Japan)                                                                         | <b>12:00 - 12:05</b> |
| <b>Systemic HMGB1, a novel predictive biomarker for cerebral vasospasm in patients with Aneurysmal Subarachnoid Hemorrhage</b><br>S. Muhammad (Germany)                              | <b>12:05 - 12:10</b> |
| <b>Risk factors for unruptured intracranial aneurysms and aneurysmal subarachnoid hemorrhage in a prospective population study: The HUNT Study in Norway</b><br>T.B. Müller (Norway) | <b>12:10 - 12:15</b> |
| <b>Dual-Image Videoangiography during Intracranial Microvascular Surgery</b><br>A. Feletti (Italy)                                                                                   | <b>12:15 - 12:20</b> |
| <b>De novo aneurysm formation in patients with and without a history of intracranial aneurysm</b><br>M. Sato (Japan)                                                                 | <b>12:20 - 12:25</b> |
| <b>Management strategy and treatment outcomes of unruptured intracranial aneurysms - implications from the UCAS Japan cohort</b><br>A. Morita (Japan)                                | <b>12:25 - 12:30</b> |
| <b>Weekend effect on aneurysmal subarachnoid hemorrhage: Have services improved?</b><br>C.N. Lou (United Kingdom)                                                                    | <b>12:30 - 12:35</b> |
| <b>Risk factors and a new grading scale for predicting unfavorable outcomes in patients with massive basal subarachnoid hemorrhage</b><br>T. Shatokhin (Russian Federation)          | <b>12:35 - 12:40</b> |
| <b>High leisure time physical activity decreases risk for subarachnoid hemorrhage</b><br>I. Rautalin (Finland)                                                                       | <b>12:40 - 12:45</b> |
| <b>Intracranial aneurysms in patients with autosomal dominant polycystic kidney disease: prevalence, risk of rupture, and management A Systematic Review</b><br>F. Cagnazzo (Italy)  | <b>12:45 - 12:50</b> |

## Scientific Programme

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|----------------------------------------------------------------------------------------------------------|----------------------|
| <b>Surveillance imaging of the cerebral cavernoma and outcomes: A retrospective, observational study</b> | <b>12:50 - 12:55</b> |
| D. Holmes (United Kingdom)                                                                               |                      |
| <b>Selection of bypass type for cerebral blood flow augmentation</b>                                     | <b>12:55 - 13:00</b> |
| V. Lukshin (Russian Federation)                                                                          |                      |
| <b>classification of vertebral artery loop formation and association with cervicogenic dizziness</b>     | <b>13:00 - 13:05</b> |
| M.E. Üstündağ (Turkey)                                                                                   |                      |

General  
11:20 - 13:05

Sala Martinelli

## Hydrocephalus and CSF Dynamics

|                                                                                                                                                                             |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Prospective randomized study concept for adult post-traumatic hydrocephalus management: a call to action</b>                                                             | <b>11:20 - 11:27</b> |
| N. Alshafai (Canada)                                                                                                                                                        |                      |
| <b>ETV-Registry: Concept, Structure and Results</b>                                                                                                                         | <b>11:27 - 11:34</b> |
| M. Fritsch (Germany)                                                                                                                                                        |                      |
| <b>Comparison of pituitary function in post operative patients of normal pressure hydrocephalus</b>                                                                         | <b>11:34 - 11:41</b> |
| <b>Telemetric monitoring of Intracranial Pressure</b>                                                                                                                       | <b>11:41 - 11:48</b> |
| S. Banos (Greece)                                                                                                                                                           |                      |
| <b>Ultrasound of the optic nerve sheath diameter before and after microsurgical closure of a dural CSF-fistula as discriminator in spontaneous intracranial hypotension</b> | <b>11:48 - 11:55</b> |
| J. Fichtner (Germany)                                                                                                                                                       |                      |
| <b>A 10-year prospective follow-up of subjective symptoms lends little support to surgical treatment of intracranial arachnoid cysts</b>                                    | <b>11:55 - 12:02</b> |
| K. Rabiei (Sweden)                                                                                                                                                          |                      |
| <b>Lumbar infusion test to guide decision-making in the surgical treatment of idiopathic intracranial hypertension</b>                                                      | <b>12:02 - 12:09</b> |
| L. Van der Loo (Netherlands)                                                                                                                                                |                      |
| <b>Mechanisms of urinary incontinence in normal pressure hydrocephalus</b>                                                                                                  | <b>12:09 - 12:16</b> |
| P. Mantovani (Italy)                                                                                                                                                        |                      |
| <b>Risk factors for shunt-dependency after craniotomies for intracranial tumors in adult patients</b>                                                                       | <b>12:16 - 12:23</b> |
| S.A.M. Hosainey (Norway)                                                                                                                                                    |                      |
| <b>Family in idiopathic normal pressure hydrocephalus (iNPH) - does it matter?</b>                                                                                          | <b>12:23 - 12:30</b> |
| V. Leinonen (Finland)                                                                                                                                                       |                      |
| <b>Microsurgical third ventriculostomy: a new tool in neurosurgical toolbox?</b>                                                                                            | <b>12:37 - 12:44</b> |
| A. Sanikidze (Russian Federation)                                                                                                                                           |                      |

## Scientific Programme

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|-----------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Brain tissue A<math>\beta</math>42 is linked to the shunt response in idiopathic normal pressure hydrocephalus</b> | <b>12:44 - 12:51</b> |
| S. Abu Hamdeh (Sweden)                                                                                                |                      |
| <b>Benign intracranial hypertension (diagnosis and treatment)</b>                                                     | <b>12:51 - 12:58</b> |
| A. Huk (Ukraine)                                                                                                      |                      |
| <b>Radiological changes in the asymptomatic era of iNPH</b>                                                           | <b>12:58 - 13:05</b> |
| D. Engel (Germany)                                                                                                    |                      |

Neurotrauma and Critical Care  
11:20 - 13:05

Sala Zorzi

### Neurotrauma and Critical Care 3: Advances in Mild TBI

|                                                                                                                                               |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Outcome Prediction in Mild TBI</b>                                                                                                         | <b>11:20 - 11:35</b> |
| T. Luoto (Finland)                                                                                                                            |                      |
| <b>Sport-related concussion: developing Common Data Elements</b>                                                                              | <b>11:35 - 11:50</b> |
| <b>Neuropsychological disorders after mild TBI</b>                                                                                            | <b>11:50 - 12:05</b> |
| C. Semenza (Italy)                                                                                                                            |                      |
| <b>Mild TBI in the pediatric population</b>                                                                                                   | <b>12:05 - 12:20</b> |
| <b>Head injury in infants in Germany</b>                                                                                                      | <b>12:20 - 12:27</b> |
| A. Pala (Germany)                                                                                                                             |                      |
| <b>Practice patterns and outcomes in the management of isolated traumatic subarachnoid hemorrhage - a North American perspective</b>          | <b>12:27 - 12:34</b> |
| L. da Costa (Canada)                                                                                                                          |                      |
| <b>GFAP and UCH-L1 as predictors of outcome in mild and moderate traumatic brain injury</b>                                                   | <b>12:34 - 12:41</b> |
| M.I. Hossain (Finland)                                                                                                                        |                      |
| <b>Serum metabolites detect patients with traumatic intracranial findings on computed tomography after traumatic brain injury</b>             | <b>12:41 - 12:48</b> |
| J. Posti (Finland)                                                                                                                            |                      |
| <b>Treatment of chronic subdural haematoma- cross-sectional study of clinical standards in Austrian, German and Swiss neurosurgical units</b> | <b>12:48 - 12:55</b> |
| D. Baschera (Switzerland)                                                                                                                     |                      |
| <b>Post-traumatic Hydrocephalus: Comparison of endoscopic third ventriculostomy and ventriculo-peritoneal shunt</b>                           | <b>12:55 - 13:02</b> |
| V. Tandon (India)                                                                                                                             |                      |

Spinal Neurosurgery  
11:20 - 12:20

Sala Beatty

### Meet the Experts Seminar 13: Thoracic Disc Herniation - Which Approach?

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|------------|----------------------|
| <b>TBD</b> | <b>11:20 - 11:40</b> |
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## Scientific Programme

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| <b>TBD</b> | <b>11:40 - 12:00</b> |
| <b>TBD</b> | <b>12:00 - 12:20</b> |

Pediatric Neurosurgery  
 11:20 - 12:20

Sala Kubrick

### Meet the Experts Seminar 14

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>11:20 - 11:40</b> |
| <b>TBD</b> | <b>11:40 - 12:00</b> |
| <b>TBD</b> | <b>12:00 - 12:20</b> |

Functional Neurosurgery & Radiosurgery  
 11:20 - 12:20

Sala Bardot

### Meet the Experts Seminar 15

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>11:20 - 11:40</b> |
| <b>TBD</b> | <b>11:40 - 12:00</b> |
| <b>TBD</b> | <b>12:00 - 12:20</b> |

Spinal Neurosurgery  
 13:25 - 14:25

Sala Perla

### AOSpine Session

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|-----------------------------------------------------------------------|----------------------|
| <b>Role of robotic surgery in the management of spinal metastases</b> | <b>13:25 - 13:40</b> |
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Corporate Symposium  
 13:25 - 14:25

Sala Casinò

### Industry-Sponsored Symposium

Corporate Symposium  
 13:25 - 14:25

Sala Volpi

### Industry-Sponsored Symposium

## Scientific Programme

General  
13:25 - 14:25

Sala Mangano

### Oral Presentations

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Study of the outcome of surgical versus nonsurgical treatment for the treatment of unstable traumatic lesions of the lower cervical spine</b><br>A. Matter (Egypt)                            | <b>13:25 - 13:30</b> |
| <b>Improving patients' confidence and satisfaction in spinal surgery: Development of a question prompt list for informed consent in a prospective setting</b><br>M. Renovanz (Germany)           | <b>13:30 - 13:35</b> |
| <b>Diffusion Tensor MR Imaging is a Biomarker for Physical Function in Cervical Spondylotic Myelopathy</b><br>M. Wang (United States)                                                            | <b>13:35 - 13:40</b> |
| <b>Oblique Lateral Lumbar Interbody Fusion (OLLIF): A Comparative Study of Perioperative and Clinical Outcomes</b><br>H. Abbasi (United States)                                                  | <b>13:40 - 13:45</b> |
| <b>Stand alone 4 levels cervical fusion with Peek cage: long term Clinical and radiological outcomes</b><br>W. Abouzeid (Egypt)                                                                  | <b>13:45 - 13:50</b> |
| <b>OUTCOME OF PRE AND POST CRANIOTOMY EVACUATION S100-BETA LEVELS OF SPONTANEOUS INTRACEREBRAL HEMORRHAGE</b>                                                                                    | <b>13:50 - 13:55</b> |
| <b>Predictors of intracranial hemorrhage in adult patients on extracorporeal membrane oxygenation: an observational cohort study</b><br>A. Fletcher Sandersjö (Sweden)                           | <b>13:55 - 14:00</b> |
| <b>BOLD MRI cerebrovascular reactivity as a surrogate imaging marker for hemodynamic failure</b><br>J. Fierstra (Switzerland)                                                                    | <b>14:00 - 14:05</b> |
| <b>General anesthesia versus local anesthesia during carotid endarterectomy - our experience</b><br>J. Mracek (Czech Republic)                                                                   | <b>14:05 - 14:10</b> |
| <b>Treatment of spontaneous subarachnoid hemorrhage and neuropsychological performance at 6 months - preliminary results of a prospective clinical trial</b><br>E. Bründl (Germany)              | <b>14:10 - 14:15</b> |
| <b>Extracranial-intracranial bypass during acute ischemic stroke doesn't increase 30-day rate of complications (any stroke or death): prospective study</b><br>P. Chechulov (Russian Federation) | <b>14:15 - 14:20</b> |

Neuro-oncology  
13:25 - 14:25

Sala Martinelli

### Oral Presentations

## Scientific Programme

|                                                                                                                                                                                                 |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Assessing brain tumor regrowth in relation to motor areas by navigated TMS and functional MRI</b><br>N. Sollmann (Germany)                                                                   | <b>13:25 - 13:30</b> |
| <b>The cortical distribution of first and second language in the right hemisphere of bilinguals: a repetitive navigated transcranial magnetic stimulation approach</b><br>N. Sollmann (Germany) | <b>13:30 - 13:35</b> |
| <b>Cell-based therapy using miR-302-367 expressing cells represses glioblastoma development</b><br>F. Almairac (France)                                                                         | <b>13:35 - 13:40</b> |
| <b>Carmustine Wafers in Newly Diagnosed High Grade Gliomas: Institutional Experience and Systematic Literature Review</b><br>T. Ius (Italy)                                                     | <b>13:40 - 13:45</b> |
| <b>Surgical Treatment of Petroclival Meningiomas</b><br>L. Poulsgaard (Denmark)                                                                                                                 | <b>13:45 - 13:50</b> |
| <b>The influence of preoperative dependency on mortality, functional recovery and complications after resection of brain tumors</b><br>Y. Zhang (Switzerland)                                   | <b>13:50 - 13:55</b> |
| <b>Is the risk of re-do tumor craniotomies increased? - Data from a prospective registry of complications and outcome</b><br>D. Seggewiss (Switzerland)                                         | <b>13:55 - 14:00</b> |
| <b>Molecular Biomarkers in low-grade glioma: retrospective monoinstitutional study</b><br>D. Cesselli (Italy)                                                                                   | <b>14:00 - 14:05</b> |
| <b>Maximal safe resection followed by balloon electronic brachytherapy for recurrent glioblastomas and brain metastases</b><br>A. Gaytan (Russian Federation)                                   | <b>14:05 - 14:10</b> |
| <b>Large intradural tympano-jugular paragangliomas. Strategy of treatment</b><br>D. Cazzador (Italy)                                                                                            | <b>14:10 - 14:15</b> |
| <b>New technologies available for the surgical treatment of vestibular schwannomas</b><br>L. Mastronardi (Italy)                                                                                | <b>14:15 - 14:20</b> |

General  
14:00 - 18:00

Sala Welles

## 1st European Neurosurgery Simulation Session - ongoing sessions

not accredited

## Scientific Programme

Pediatric Neurosurgery  
 14:35 - 16:15

Sala Grande

### Plenary Session: Pediatric Neurosurgery

#### Chairs:

M. Juhler (Denmark)

|                                                                                 |                      |
|---------------------------------------------------------------------------------|----------------------|
| <b>Posterior fossa high-grade tumors</b><br>N. Akalan (Turkey)                  | <b>14:35 - 14:55</b> |
| <b>Spinal Disraphisms: integrated roadmap for management</b><br>A. Cama (Italy) | <b>14:55 - 15:15</b> |
| <b>Endoscopy for intraventricular tumors</b>                                    | <b>15:15 - 15:35</b> |
| <b>Cerebellar mutism</b><br>M. Juhler (Denmark)                                 | <b>15:35 - 15:55</b> |
| <b>Medulloblastomas</b>                                                         | <b>15:55 - 16:15</b> |

Spinal Neurosurgery  
 16:55 - 18:40

Sala Grande

### Spinal Neurosurgery 6

|                                                                                                                                                                      |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Intramedullary tumors</b><br>G. Pinna (Italy)                                                                                                                     | <b>16:55 - 17:10</b> |
| <b>Minimally invasive cervical surgery</b>                                                                                                                           | <b>17:10 - 17:25</b> |
| <b>TBD</b>                                                                                                                                                           | <b>17:25 - 17:40</b> |
| <b>Revision Rate of Misplaced Pedicle Screws of the Thoracolumbar Spine - Comparison of 3D Fluoroscopy Navigated vs. Freehand Placement</b><br>J. Fichtner (Germany) | <b>17:40 - 17:47</b> |
| <b>Lumbar microdiscectomy for sciatica in adolescents: a multicentre observational registry-based study</b><br>M.A. Madsbu (Norway)                                  | <b>17:47 - 17:54</b> |
| <b>A new score predicting clinical outcome following lumbar spine surgery for degenerative disc disease</b><br>A. Kellersmann (Germany)                              | <b>17:54 - 18:01</b> |
| <b>Economic Performance of Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a Focus on Hospital Throughput Efficiency</b><br>H. Abbasi (United States)           | <b>18:01 - 18:08</b> |
| <b>Treatment of syringomyelia associated with adhesive arachnoiditis</b><br>A. Zuev (Russian Federation)                                                             | <b>18:08 - 18:15</b> |
| <b>A national pathway for the management of low back pain and radicular pain in Belgium</b><br>B. Depreitere (Belgium)                                               | <b>18:15 - 18:22</b> |



## Scientific Programme

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>The Mini-open Lateral Approach for Corpectomy of the Thoraco-lumbar Spine. Results and Outcome</b>                                                                  | <b>18:22 - 18:29</b> |
| M. Balsano (Italy)                                                                                                                                                     |                      |
| <b>Minimally invasive resection of ventral and ventrolateral intradural extramedullary spinal lesions. Clinical outcomes and the addition of image merge technique</b> | <b>18:29 - 18:36</b> |

Vascular Neurosurgery  
16:55 - 18:40

Sala Perla

### Vascular Neurosurgery 5: Incidental Aneurysms - Should We Treat the Images or the Patient?

|                                                                                                                                                                                          |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>A hypothesis about the birth, life and death of intracranial aneurysms</b>                                                                                                            | <b>16:55 - 17:10</b> |
| A. Raabe (Switzerland)                                                                                                                                                                   |                      |
| <b>Predictors of future rupture of unruptured aneurysms: aneurysm related factors</b>                                                                                                    | <b>17:10 - 17:25</b> |
| A. Morita (Japan)                                                                                                                                                                        |                      |
| <b>True risk factors and incidence of aneurysmal SAH</b>                                                                                                                                 | <b>17:25 - 17:40</b> |
| M. Korja (Finland)                                                                                                                                                                       |                      |
| <b>Follow up strategies in unruptured untreated aneurysms</b>                                                                                                                            | <b>17:40 - 17:55</b> |
| F. Proust (France)                                                                                                                                                                       |                      |
| <b>Current treatment strategies of giant intracranial aneurysms in Europe - results from the Giant Intracranial Aneurysm Registry</b>                                                    | <b>17:55 - 18:10</b> |
| J. Dengler (Germany)                                                                                                                                                                     |                      |
| <b>Radiological biomarkers for unruptured but rupture-prone intracranial aneurysms</b>                                                                                                   | <b>18:10 - 18:25</b> |
| J. Frosen (Finland)                                                                                                                                                                      |                      |
| <b>Predictors of in-hospital death following aneurysmal subarachnoid hemorrhage - analysis of a nationwide database (Swiss SOS)</b>                                                      | <b>18:25 - 18:32</b> |
| M.N. Stienen (Switzerland)                                                                                                                                                               |                      |
| <b>Slow-closing-clip: A new technique for gradual occlusion of intracranial arteries experience in 14 patients with "inoperable" aneurysms, proof of concept and future perspectives</b> | <b>18:32 - 18:39</b> |
| B. Rezai Jahromi (Finland)                                                                                                                                                               |                      |

General  
16:55 - 18:40

Sala Casinò

### High Risk Surgery

|                                                            |                      |
|------------------------------------------------------------|----------------------|
| <b>Introductory remarks</b>                                | <b>16:55 - 17:10</b> |
| <b>Spine Surgery in morbidly obese patients &gt;400lbs</b> | <b>17:10 - 17:25</b> |
| Z. Ghogawala (United States)                               |                      |

## Scientific Programme

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|------------------------------------------------------------------------------------------|----------------------|
| <b>Elective surgery in pts &gt;65 years; what is the evidence?</b>                       | <b>17:25 - 17:40</b> |
| <b>Neurosurgery in Pregnancy</b><br>Y. Laviv (Israel)                                    | <b>17:40 - 17:55</b> |
| <b>Pediatric Neurosurgery</b>                                                            | <b>17:55 - 18:10</b> |
| <b>Multimorbid patients and Critical Care Neurosurgery</b><br>A. Merenda (United States) | <b>18:10 - 18:25</b> |
| <b>TBD</b>                                                                               | <b>18:25 - 18:40</b> |

General  
 16:55 - 18:40

Sala Volpi

## Pituitary and Around

### Chairs:

P. Cappabianca (Italy)

|                                                                                                                                          |                      |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Will we ever reach 100% cure of hormone-active pituitary tumors?</b>                                                                  | <b>16:55 - 17:10</b> |
| <b>TBD Avoiding Complications in Pituitary Surgery (or other topic)</b><br>E. Laws (United States)                                       | <b>17:10 - 17:25</b> |
| <b>Volumetric assessment</b>                                                                                                             | <b>17:25 - 17:40</b> |
| <b>Suprasellar meningiomas. The nuances of the surgical techniques and the outcome.</b><br>J. Steno (Slovakia)                           | <b>17:40 - 17:55</b> |
| <b>Parasellar meningiomas</b><br>W. Couldwell (United States)                                                                            | <b>17:55 - 18:10</b> |
| <b>Aggressive pituitary tumors</b><br>F.F. Angileri (Italy)                                                                              | <b>18:10 - 18:25</b> |
| <b>Features of surgical treatment of patients with Cushing's disease</b><br>A. Grigoriev (Russian Federation)                            | <b>18:25 - 18:32</b> |
| <b>The role of expanded endoscopic endonasal approach in the management of fibrous pituitary macroadenomas</b><br>M. Cappelletti (Italy) | <b>18:32 - 18:39</b> |

Pediatric Neurosurgery  
 16:55 - 18:40

Sala Pasinetti

## Pediatric Neurosurgery 3: Low-grade Tumors

|                                                                                                                         |                      |
|-------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>How molecular biology has influenced our understanding of pediatric low grade gliomas.</b><br>F. Giangaspero (Italy) | <b>16:55 - 17:10</b> |
| <b>Surgical Strategies in the management of Thalamic tumors in children</b><br>G. Cinalli (Italy)                       | <b>17:10 - 17:25</b> |

## Scientific Programme

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|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Lessons Learned in the Management of Childhood Ependymoma</b><br>N. El Abbadi (Morocco)                                                    | <b>17:25 - 17:32</b> |
| <b>Safety of concomitant use of intraoperative monitoring with intraoperative magnetic resonance in children</b><br>S. Dias (Switzerland)     | <b>17:32 - 17:39</b> |
| <b>Recurrent ependymomas of the posterior fossa</b><br>M. Smrčka (Czech Republic)                                                             | <b>17:39 - 17:46</b> |
| <b>The experience of surgical treatment of structural pharmacoresistant forms of epilepsy</b><br>M. Zemlyansky (Russian Federation)           | <b>17:46 - 17:53</b> |
| <b>Surgical treatment in pediatric patients suffering drug resistant epilepsy</b><br>M. Talabaev (Belarus)                                    | <b>17:53 - 18:00</b> |
| <b>Clinical and experimental use of advanced magnetic resonance imaging for pediatric patients with moyamoya disease</b><br>T. Nariai (Japan) | <b>18:00 - 18:07</b> |
| <b>Repeat Bypass Surgery for Moyamoya Disease Refractory to Previous Surgery</b><br>S. Kuroda (Japan)                                         | <b>18:07 - 18:14</b> |

Neuro-oncology  
16:55 - 18:40

Sala Mangano

## Neuro-oncology 10

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| <b>Awake surgery for gliomas within the right inferior parietal lobule: new insights into the functional connectivity gained from stimulation mapping and surgical implications</b><br>A. Rolland (France) | <b>16:55 - 17:02</b> |
| <b>Ultrasonography monitoring during neurosurgical operation using Superb Microvascular Imaging technique</b><br>M. Ishikawa (Japan)                                                                       | <b>17:02 - 17:09</b> |
| <b>Intraoperative magnetic resonance spectroscopy evaluates proliferative activity during glioma surgery</b><br>M. Kohta (Japan)                                                                           | <b>17:09 - 17:16</b> |
| <b>Optimizing the extent of resection and minimizing the morbidity in insular high-grade glioma surgery by high-field intraoperative MRI guidance</b>                                                      | <b>17:16 - 17:23</b> |
| <b>Integration of white matter tractography into neuronavigation system in a consecutive surgical glioma series: useful, economic, operator-dependent</b><br>A. D'Elia (Italy)                             | <b>17:23 - 17:30</b> |
| <b>Predictors of cognitive outcome after surgery for brain tumors</b><br>S. De Pellegrin (Italy)                                                                                                           | <b>17:30 - 17:37</b> |

## Scientific Programme

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Non-invasive mapping of categorization function by navigated transcranial magnetic stimulation</b>                                                                       | <b>17:37 - 17:44</b> |
| S. Maurer (Germany)                                                                                                                                                         |                      |
| <b>Elastic fusion enables fusion of intraoperative MRI data with preoperative neuronavigation data</b>                                                                      | <b>17:44 - 17:51</b> |
| C. Negwer (Germany)                                                                                                                                                         |                      |
| <b>The impact of intraoperative MRI examination on extent of resection in glioma surgery</b>                                                                                | <b>17:51 - 17:58</b> |
| F. Kramar (Czech Republic)                                                                                                                                                  |                      |
| <b>The Oxford experience in Spheno-orbital meningiomas: A 11 year series</b>                                                                                                | <b>17:58 - 18:05</b> |
| O. Al Awar (United Kingdom)                                                                                                                                                 |                      |
| <b>Advanced Navigation Guidance Improves Extent of Resection of Sphenoorbital Meningiomas</b>                                                                               | <b>18:05 - 18:12</b> |
| S. Wolfsberger (Austria)                                                                                                                                                    |                      |
| <b>Potential Risk Factors for Seizures in Meningioma Patients and Influence of Anti-Epileptic Treatment</b>                                                                 | <b>18:12 - 18:19</b> |
| P. Baumgarten (Germany)                                                                                                                                                     |                      |
| <b>Keep Gamma Knife radiosurgery in Neurosurgery</b>                                                                                                                        | <b>18:19 - 18:26</b> |
| E. Motti (Italy)                                                                                                                                                            |                      |
| <b>Gamma Knife radiosurgery in acoustic neuroma - the Vienna series</b>                                                                                                     | <b>18:26 - 18:33</b> |
| J.M. Frischer (Austria)                                                                                                                                                     |                      |
| <b>Preserving the superior petrosal vein in meningioma surgery: Clinical importance and depiction of the vein complex by 3D-CE-MR-Angiography for preoperative planning</b> | <b>18:33 - 18:40</b> |
| F. Ebner (Germany)                                                                                                                                                          |                      |

Spinal Neurosurgery  
16:55 - 18:40

Sala Martinelli

## Spinal Neurosurgery 7

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Cervical disc replacement with DCItm (Dymanic Cervical Implant) in operative treatment of cervical degenerative disc disease (CDDD) and traumatic cervical disc herniation (TCDH)</b> | <b>16:55 - 17:02</b> |
| <b>Minimally invasive approaches in CalcifiedThoracic Disc Herniations. Our Experience from '97</b>                                                                                      | <b>17:02 - 17:09</b> |
| <b>Outcomes of Oblique Lateral Interbody Fusion for Degenerative Lumbar Disease in Patients Uunder or Over 65 Years of Age</b>                                                           | <b>17:09 - 17:16</b> |
| J.-S. Kim (Korea, Republic of)                                                                                                                                                           |                      |
| <b>Complications associated with spinal endoscopic surgery - correlations with the learning curve -</b>                                                                                  | <b>17:16 - 17:23</b> |
| Y. Nishimura (Japan)                                                                                                                                                                     |                      |

## Scientific Programme

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Two years effectiveness of fluoroscopy-guided epidural injections of Lidocaine Versus Lidocaine plus Steroids in chronic lumbar disc herniation: a Systematic Review and Meta-analysis</b><br>I.C. Marques Neto (Brazil)  | <b>17:23 - 17:30</b> |
| <b>Insights into the past and future of atlantoaxial stabilization techniques</b><br>N. Alshafai (Canada)                                                                                                                    | <b>17:30 - 17:37</b> |
| <b>Correlation of Matrix Metalloproteinase (MMP)-1, -2, -3, and -9 Expressions with Demographic and Radiological Features in Primary Lumbar Intervertebral Disc Disease</b><br>E. Balkuv (Turkey)                            | <b>17:37 - 17:44</b> |
| <b>C5 nerve root palsy following decompression of cervical spine with anterior versus posterior procedures in patients with cervical myelopathy</b><br>E. Balkuv (Turkey)                                                    | <b>17:44 - 17:51</b> |
| <b>Evaluation of correction of radiological parameters (angulation ,displacement) and accuracy of C2 pedicle screw placement in unstable hangman´s fracture with intraoperative C T based navigation</b><br>P. Singh (India) | <b>17:51 - 17:58</b> |
| <b>Cost effectiveness of local and intravenous steroids in anterior cervical discectomy and fusion</b>                                                                                                                       | <b>17:58 - 18:05</b> |
| <b>Cervical myelopathy and the use of Stand-Alone cervical cages with Integrated Screw Fixation: Results in 355 consecutive operated levels</b>                                                                              | <b>18:05 - 18:12</b> |
| <b>Re-operation rates and risk factors at a minimum of 4-Year Follow Up after dynamic lumbar stabilization using a semirigid system</b><br>A. Rienmueller (Germany)                                                          | <b>18:12 - 18:19</b> |
| <b>Bilateral spinal decompression by extended unilateral mini-open TLIF in degenerative spondylolisthesis with central lumbar canal stenosis. Description of the surgical technique</b><br>G. Barbagallo (Italy)             | <b>18:19 - 18:26</b> |
| <b>Proatlas Segmentation Anomalies: Clinical Presentation, Radiological Features &amp; Surgical Management</b><br>N. Muthukumar (India)                                                                                      | <b>18:26 - 18:33</b> |
| <b>Ct Angiography In Developmental Cvj Anomalies: Adding A New Dimension To Management</b><br>S. Singh (India)                                                                                                               | <b>18:33 - 18:40</b> |

General  
16:55 - 18:40

Sala Zorzi

## Video Session

|                                                                                                                                                         |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Vascular injury in meningioma surgery: Pitfalls and recovery</b><br>H. Kasuya (Japan)                                                                | <b>16:55 - 17:05</b> |
| <b>Unilateral Basal interhemispheric approach through the sphenoid sinus to retrochiasmatic and intrasellar craniopharyngiomas</b><br>T. Matsuo (Japan) | <b>17:05 - 17:15</b> |

## Scientific Programme

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Lateral orbito-tomy for management of orbital tumors</b><br>P. Shetty (India)                                                                             | <b>17:15 - 17:25</b> |
| <b>Extended Orbital Exenteration for Sinonasal Malignancy with Orbital Apex Extension -Surgical Technique and Long Term Outcomes-</b><br>T. Sugawara (Japan) | <b>17:25 - 17:35</b> |
| <b>Innovations in cerebral AVM surgery in current multimodal treatment /ARUBA aftermath era</b><br>H. Kurita (Japan)                                         | <b>17:35 - 17:45</b> |
| <b>Brainbook: Neurosurgery for all</b><br>P. Rogers (United Kingdom)                                                                                         | <b>17:45 - 17:55</b> |
| <b>Giant mucocelle one time surgery versus multiple surgeries</b><br>A. Iordache (Romania)                                                                   | <b>17:55 - 18:05</b> |
| <b>The endoscopic endonasal "micro" surgery for deep intradural pathology</b><br>M. Taniguchi (Japan)                                                        | <b>18:05 - 18:15</b> |
| <b>Endoscopic transorbital approach for a spheno-orbital meningioma</b><br>C. Zoia (Italy)                                                                   | <b>18:15 - 18:25</b> |
| <b>Aneurismal bone cyst of the lateral mass of C1. A good reconstruction with iliac crest graft: A case report</b>                                           | <b>18:25 - 18:35</b> |

Neuro-oncology  
16:55 - 17:55

Sala Beatty

### Meet the Experts Seminar 16

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>16:55 - 17:15</b> |
| <b>TBD</b> | <b>17:15 - 17:35</b> |
| <b>TBD</b> | <b>17:35 - 17:55</b> |

Vascular Neurosurgery  
16:55 - 17:55

Sala Kubrick

### Meet the Experts Seminar 17

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>16:55 - 17:15</b> |
| <b>TBD</b> | <b>17:15 - 17:35</b> |
| <b>TBD</b> | <b>17:35 - 17:55</b> |

Neurotrauma and Critical Care  
16:55 - 17:55

Sala Bardot

### Meet the Experts Seminar 18

## Scientific Programme

|            |                      |
|------------|----------------------|
| <b>TBD</b> | <b>16:55 - 17:15</b> |
| <b>TBD</b> | <b>17:15 - 17:35</b> |
| <b>TBD</b> | <b>17:35 - 17:55</b> |

## Scientific Programme

**Thursday, 05 October 2017**

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Vascular Neurosurgery  
09:00 - 10:45

Sala Perla

### Vascular Neurosurgery 6: Vascular Malformations and Occlusive Disease

**Chairs:**

T.R. Meling (Norway)

|                                                                                                                                                      |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Natural history of supratentorial cavernous malformations: features of aggressive behaviour</b>                                                   | <b>09:00 - 09:15</b> |
| <b>Natural history of cerebral AVMs - Helsinki vs. ARUBA series</b><br>M. Niemelä (Finland)                                                          | <b>09:15 - 09:30</b> |
| <b>Hemodynamic parameters in moyamoya: a guide in clinical decision making?</b><br>H. Kurita (Japan)                                                 | <b>09:30 - 09:45</b> |
| <b>Microsurgery for unruptured AVMs: Burdenko NSI experience and standpoint</b>                                                                      | <b>09:45 - 09:55</b> |
| <b>Collateral pathways and vessel plasticity in moyamoya vasculopathy</b><br>M. Czabanka (Germany)                                                   | <b>09:55 - 10:02</b> |
| <b>Outcome after the treatment of spinal dural arteriovenous fistulae - a single center retrospective study</b><br>K. Ninov (Bulgaria)               | <b>10:02 - 10:09</b> |
| <b>AneuX- SHAPE AS BIOMARKER FOR ANEURYSM DISEASE Project Progress Report</b><br>P. Bijlenga (Switzerland)                                           | <b>10:09 - 10:16</b> |
| <b>Nimodipine-free management of cerebral vasospasm following aneurysmal rupture; realistic?</b><br>A. Moiraghi (Switzerland)                        | <b>10:16 - 10:23</b> |
| <b>Is ultrasound perfusion imaging capable of detecting mismatch? A proof-of-concept study in acute stroke patients</b><br>R. Reitmeir (Switzerland) | <b>10:23 - 10:30</b> |
| <b>Microsurgical treatment of complex intracranial aneurysms (six-year experience)</b><br>N. Polunina (Russian Federation)                           | <b>10:30 - 10:37</b> |
| <b>Pure Arterial Malformations</b><br>G. Lanzino (United States)                                                                                     | <b>10:37 - 10:44</b> |

General  
09:00 - 10:45

Sala Casinò

### Preventing and Rehabilitating Neurological Deficits



## Scientific Programme

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Efficacy and Outcome of Autologous Bone Marrow Derived Stem Cells in Acute Complete Spinal Cord Injury- A Randomized Placebo Controlled Trial</b>             | <b>09:00 - 09:07</b> |
| R. Saini (India)                                                                                                                                                 |                      |
| <b>Hand reconstruction in Tetraplegia after spinal cord injuries by using nerve transfer</b>                                                                     | <b>09:07 - 09:14</b> |
| M.R. Emamhadi (Iran, Islamic Republic of)                                                                                                                        |                      |
| <b>The results of restorative surgical treatment of complete cervical spinal cord injury consequences</b>                                                        | <b>09:14 - 09:21</b> |
| Y. Yaminskyi (Ukraine)                                                                                                                                           |                      |
| <b>Development of next-generation delivery constructs for olfactory ensheathing cells following traumatic spinal cord injury</b>                                 | <b>09:21 - 09:28</b> |
| R.D. Bartlett (United Kingdom)                                                                                                                                   |                      |
| <b>Incidence and clinical significance of postoperative delirium after brain tumor surgery</b>                                                                   | <b>09:28 - 09:35</b> |
| A. Bunevicius (Lithuania)                                                                                                                                        |                      |
| <b>DTI fiber tracking of arithmetic processing pathways based on results of rTMS in brain tumor patients and correlation with postoperative outcome</b>          | <b>09:35 - 09:42</b> |
| S. Ille (Germany)                                                                                                                                                |                      |
| <b>Transcranial glossopharyngeal and hypoglossal nerve motor evoked potential (TES-MEPs) in CPA surgery: a prospective study to determine the normative data</b> | <b>09:42 - 09:49</b> |
| G. Del Moro (Italy)                                                                                                                                              |                      |
| <b>Outcome Prediction by Volume of Ischemic Brain in Malignant Middle Cerebral Artery Infarction treated by Decompressive Hemicraniectomy</b>                    | <b>09:49 - 09:56</b> |
| C.F. Freyschlag (Austria)                                                                                                                                        |                      |
| <b>Predictors of cranial nerve deficits in giant cavernous carotid aneurysms - do aneurysm size, location of mass effect or partial thrombosis matter?</b>       | <b>09:56 - 10:03</b> |
| J. Dengler (Germany)                                                                                                                                             |                      |
| <b>Artificial Neural Networks; the renewed future for outcome prediction in SAH disease models</b>                                                               | <b>10:03 - 10:10</b> |
| G. de Jong (Netherlands)                                                                                                                                         |                      |
| <b>Temporal lobe oxygenation during (and after) temporary clipping for MCA aneurysm surgery</b>                                                                  | <b>10:10 - 10:17</b> |
| P.A. Silva (Portugal)                                                                                                                                            |                      |
| <b>Microsurgical outcome of anterior circulation clipping during the period of vasospasm; Single center experience in Egypt</b>                                  | <b>10:17 - 10:24</b> |
| M. Taha (Egypt)                                                                                                                                                  |                      |
| <b>Prior 3D Simulations Benefit Future Patients with Similar Pathologies during Pre-Operative Consultation</b>                                                   | <b>10:24 - 10:31</b> |
| L. Schlachter (United States)                                                                                                                                    |                      |
| <b>Surgery of unruptured aneurysms after planning in a virtual reality environment: Technique and outcome analysis</b>                                           | <b>10:31 - 10:38</b> |
| R. Kockro (Switzerland)                                                                                                                                          |                      |

## Scientific Programme

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| <b>Application of Extracorporeal Circulation Technique in Carotid Arterectomy for Complicated Carotid Artery Disease: Review of 24 Cases</b><br>Y. Niiya (Japan) | <b>10:38 - 10:45</b> |
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Neuro-oncology  
 09:00 - 10:45

Sala Volpi

### Neuro-oncology 8: Beyond WBRT and TMZ

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Astrocytoma, oligodendroglioma, and glioblastoma in the 2016 WHO classification of CNS tumors</b><br>P. Burger (United States)                                                  | <b>09:00 - 09:15</b> |
| <b>Gene and Oncolytics Immunotherapy Clinical Trials for Glioblastoma</b><br>N. Chiocca (United States)                                                                            | <b>09:15 - 09:30</b> |
| <b>Neuro-oncology transatlantic research</b><br>I. Nakano (United States)                                                                                                          | <b>09:30 - 09:45</b> |
| <b>Antiangiogenic drugs as treatment for glioma: The end of an era?</b><br>G. Lombardi (Italy)                                                                                     | <b>09:45 - 09:52</b> |
| <b>The influence of age on morbidity, mortality and complications after resection of brain tumors - Milan - Zurich experience</b><br>M.N. Stienen (Switzerland)                    | <b>09:52 - 09:59</b> |
| <b>Assessing complexity and predicting outcome in brain tumor surgery: The Milan Complexity Scale</b><br>M. Broggi (Italy)                                                         | <b>09:59 - 10:06</b> |
| <b>Leksell Gamma Knife Radiosurgery for Low Grade Gliomas: results and potentially predictive factors of an italian multicentric study in 288 patients</b><br>A. La Camera (Italy) | <b>10:06 - 10:13</b> |
| <b>Stereotactic Cryosurgery of Mesial Temporal Sclerosis and Deep-Seated Cerebral Gliomas</b><br>A. Kholyavin (Russian Federation)                                                 | <b>10:13 - 10:20</b> |
| <b>Stereotactic versus neuronavigation brain lesion biopsies. Are we evolving on the right path?</b><br>R. Ramos (Portugal)                                                        | <b>10:20 - 10:27</b> |
| <b>Gamma Knife Radiosurgery as Primary Treatment for Large Vestibular Schwannomas: Clinical Results at Long-Term Follow-Up in a Series of 59 Patients</b><br>N. Boari (Italy)      | <b>10:27 - 10:34</b> |
| <b>Gamma Knife Radiosurgery for Low-Grade Gliomas: Clinical Results at Long-Term Follow-Up on Tumor Control and Patients' Quality of Life</b><br>F. Gagliardi (Italy)              | <b>10:34 - 10:41</b> |

## Scientific Programme

General  
 09:00 - 10:45

Sala Mangano

### Ethical and Medico-legal Issues in Neurosurgery

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|-------------------------------------------------------------------------------------------------------|----------------------|
| <b>Ethics of stem cell therapies for neurological diseases</b><br>D. Cote (United States)             | <b>09:00 - 09:15</b> |
| <b>Head transplant: Ethical implications from research perspective</b><br>J. Brennum (Denmark)        | <b>09:15 - 09:30</b> |
| <b>Decompressive hemicraniectomy for trauma — ethical implications</b><br>T. Mathiesen (Denmark)      | <b>09:30 - 09:45</b> |
| <b>Alternative treatments for recurrent GBM patients</b><br>M.L. Broekman (Netherlands)               | <b>09:45 - 10:00</b> |
| <b>Oversight and regulation and controversial neurosurgical procedures</b><br>W. Moojen (Netherlands) | <b>10:00 - 10:15</b> |
| <b>Payment for controversial neurosurgical therapies</b><br>W. Peul (Netherlands)                     | <b>10:15 - 10:30</b> |
| <b>Medical tourism for controversial neurosurgical procedures</b><br>H. Kolenda (Germany)             | <b>10:30 - 10:45</b> |

General  
 09:00 - 10:45

Sala Martinelli

### Harmonization of Training

|                                                                                                                      |                      |
|----------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>The role of UEMS in harmonization of postgraduate training</b><br>J. van Loon (Belgium)                           | <b>09:00 - 09:20</b> |
| <b>Harmonization in neurosurgical education &amp; training - A worldwide need?</b>                                   | <b>09:20 - 09:40</b> |
| <b>TBD</b>                                                                                                           | <b>09:40 - 09:55</b> |
| <b>TBD</b>                                                                                                           | <b>09:55 - 10:10</b> |
| <b>TBD</b>                                                                                                           | <b>10:10 - 10:24</b> |
| <b>Neurosurgical simulation and psycho-metric assessment: can we train better neurosurgeons?</b><br>A. Perin (Italy) | <b>10:24 - 10:31</b> |
| <b>Neurosurgery Residency Training in Europe: Results from a Multinational Survey of 38 Countries</b>                | <b>10:31 - 10:38</b> |
| <b>Certification and Accreditation process of Neurosurgical Residents in Europe</b><br>U. Ulasavets (Canada)         | <b>10:38 - 10:45</b> |

## Scientific Programme

ePoster Presentations  
09:00 - 11:30

ePoster area

### ePosters

General  
09:00 - 12:00

Sala Welles

### 1st European Neurosurgery Simulation Session - ongoing sessions

not accredited

General  
11:15 - 12:55

Sala Perla

### Plenary Session: How I Would Have Done It Differently

|                           |                      |
|---------------------------|----------------------|
| <b>TBD</b>                | <b>11:15 - 11:35</b> |
| V. Beneš (Czech Republic) |                      |
| <b>TBD</b>                | <b>11:35 - 11:55</b> |
| <b>TBD</b>                | <b>11:55 - 12:15</b> |
| <b>TBD</b>                | <b>12:15 - 12:35</b> |
| <b>TBD</b>                | <b>12:35 - 12:55</b> |

General  
13:00 - 14:00

Sala Perla

### Closing Session & Awards Ceremony

award ceremonies & speeches - TBD

|                       |                      |
|-----------------------|----------------------|
| <b>Award ceremony</b> | <b>13:00 - 13:10</b> |
| <b>Award ceremony</b> | <b>13:10 - 13:20</b> |
| <b>TBD</b>            | <b>13:20 - 13:30</b> |
| <b>TBD</b>            | <b>13:30 - 13:40</b> |
| <b>TBD</b>            | <b>13:40 - 13:50</b> |
| <b>TBD</b>            | <b>13:50 - 14:00</b> |