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

Chairs:
B. Lippitz (Germany)
P. Mortini (Italy)

Spinal radiosurgery: Combination with partial resection or completion of incomplete resection
K. Sallabanda (Spain) 09:30 - 09:48

Surgical resection in combination with stereotactic radiosurgery of brain metastases
B. Lippitz (Germany) 09:48 - 10:06

Radiosurgery of postoperative remnants/recurrences after resection of pituitary adenoma
P. Picozzi (Italy) 10:06 - 10:24

Stereotactic radiosurgery of AVM in the time after ARUBA
A. Nicolato (Italy) 10:24 - 10:42

Radiosurgery of partially resected or unresectable meningiomas
E. Motti (Italy) 10:42 - 11:00

Salvage fractionated radiosurgery of postoperative resection cavity using linac with modern techniques
F. Würschmidt (Germany) 11:00 - 11:18

Surgical technique in a prospective combined surgical/radiosurgical approach for functional preservation in large vestibular schwannoma
P.-H. Roche (France) 11:18 - 11:36

Intended subtotal resection of large vestibular schwannoma in preparation for complementary radiosurgery
R. Daniel (Switzerland) 11:36 - 11:54

Stereotactic radiosurgery of trigeminal neuralgia in comparison to MVD or thermo-coagulation
J. Regis (France) 11:54 - 12:12

Wait and see or early radiosurgical treatment?
M. Levivier (Switzerland) 12:12 - 12:30
**FLANC Session**

Organised by the FLANC

**Chairs:**
- J. Lafuente (Spain)
- J.M. Rotta (Brazil)

<table>
<thead>
<tr>
<th>Session</th>
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<td>Is aggressive resection beneficial in Glioblastoma?</td>
<td>13:00 - 13:12</td>
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<td>J.M. Rotta (Brazil)</td>
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<td>Motor cortex stimulation for central and neuropathic pain</td>
<td>13:12 - 13:24</td>
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<td>C. Yampolsky (Argentina)</td>
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<td>diagnosed patients</td>
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<td>E. Spagnuolo (Uruguay)</td>
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<td>Surgical treatment for Hemifacial spasm</td>
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<td>R. Revuelta (Mexico)</td>
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<td>Foramen magnum tumors. The dilemma of the approach: How to choose the best</td>
<td>13:48 - 14:00</td>
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<td>J.A. Landeiro (Brazil)</td>
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<td>Biological nucleoplastic in disc hernation</td>
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<td>T. Perilla (Colombia)</td>
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<td>Management of chronic pain after transpedicular instrumentation</td>
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<td>M. Masini (Brazil)</td>
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<td>Technological innovation in vascular neurosurgery: Risks associated</td>
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<td>with acceleration of technological transfer to the patient</td>
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<td>M. Baccanelli (Argentina)</td>
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<td>Spinal AVMs: Microsurgical treatment</td>
<td>14:36 - 14:48</td>
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<td>F. Papalini (Argentina)</td>
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<td>Intracranial dural arteriovenous fistulas - surgical or endovascular</td>
<td>14:48 - 15:00</td>
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<td>treatment. Where we are now?</td>
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<td>J.Z. Yada (El Salvador)</td>
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<td>Lumbar disk: lessons learned from 1500 patients</td>
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<td>R. Burgos (Colombia)</td>
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<td>Special lecture: Program for surgical paralysis reversal</td>
<td>15:12 - 15:30</td>
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<td>J. Brown (United States)</td>
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Scientific Programme

Neuro-oncology
14:00 - 16:50
Sala Pasinetti

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

Chairs:
J. Tonn (Germany)
C. Watts (United Kingdom)

- Introduction to the tumour section 14:00 - 14:20
  C. Watts (United Kingdom)
- Molecular imaging of brain tumours 14:20 - 14:50
  J. Tonn (Germany)
- Early re-operation to remove residual disease in tumour surgery: Should we bother? 14:50 - 15:20
  P. Schucht (Switzerland)
- Using ultrasound in neurosurgical oncology 15:20 - 15:50
  F. DiMeco (Italy)
- Techniques and strategies to minimise functional damage in brain tumour surgery 15:50 - 16:20
  H. Duffau (France)
- The current status of intra-operative MRI in neurosurgical oncology 16:20 - 16:50
  C. Senft (Germany)

General
16:00 - 18:30
Sala Grande

Neurosurgery from Minimal to Maximal Resources: What are the differences?
Organised by the WFNS

Chairs:
A. Grotenhuis (Netherlands)
F. Servadei (Italy)

- Introduction: The concept of global neurosurgery 16:00 - 16:10
  K. Park (United States)
- Vascular and endovascular surgery: I need all the best... 16:10 - 16:20
  Y.-K. Tu (Taiwan)
- Vascular and endovascular surgery: I can do it with limited resources 16:20 - 16:30
  Y. Kato (Japan)
- Vascular and endovascular surgery: I do it with limited resources 16:30 - 16:40
  A. Adeleye (Nigeria)
- Meningiomas: I need all the best... 16:40 - 16:50
  B. Misra (India)
Scientific Programme

Meningiomas: I can do it with limited resources  
I. Germano (United States)  
16:50 - 17:00

Meningiomas: I do it with limited resources  
K. Turel (India)  
17:00 - 17:10

Spine surgery: I need all the best...  
M. Fornari (Italy)  
17:10 - 17:20

Spine surgery: I can do it with limited resources  
R. Hartl (United States)  
17:20 - 17:30

Spine surgery: I do it with limited resources  
K. Kalangu (Zimbabwe)  
17:30 - 17:40

Neurotrauma: I need all the best...  
M. Suzuki (Japan)  
17:40 - 17:50

Neurotrauma: I can do with limited resources  
P. Hutchinson (United Kingdom)  
17:50 - 18:00

Decompression surgery for Critical Glasgow Coma Score Patients  
A.H. Bajamal (Indonesia)  
18:00 - 18:10

Lecture: Can we stratify neurosurgical guidelines according to the available resources?  
W. Johnson (Switzerland)  
18:10 - 18:25

General  
16:30 - 21:00  
Sala Welles

1st European Neurosurgery Simulation Session - ongoing sessions  
not accredited

Welcome Session  
A welcome to EANS2017 hosted by Congress President Domenico d'Avella.  

Not accredited.

Chairs:  
D. d'Avella (Italy)  
A. Grotenhuis (Netherlands)

Welcome from the EANS 2017 Congress President  
D. d'Avella (Italy)  
. and President SINch (Italy)  
19:00 - 19:10

Welcome from the EANS President  
A. Grotenhuis (Netherlands)  
19:10 - 19:20
Welcome from the Rector of the University of Padova  
R. Rizzuto (Italy)  
19:20 - 19:30

Welcome from the Dean of the Medical School of the University of Padova  
M. Plebani (Italy)  
19:30 - 19:40

Welcome from the Veneto Region Health Service Authority  
L. Flor (Italy)  
19:40 - 19:50

Research Fund  
P. Hutchinson (United Kingdom)  
19:50 - 19:55

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)

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  
M. Rahman (Bangladesh)

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)

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 foramena 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 forteplase 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. Preguza (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)

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)

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)

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)
Scientific Programme

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)

Results of individual surgical approach for management middle cerebral artery aneurysms
V. Cheburakhin (Ukraine)

tSAH due to traumatic avulsion of the ophtalmic 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 (Italy)

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. Krivoshapkin (Russian Federation)

Surgical treatment of interhemispheric arteriovenous malformation
V. Cuibotaru (Romania)
Scientific Programme

Giant extracranial hemangioma in an adult
N. Vantomme (Belgium)

Spontaneous appearance of de novo intracranial arteriovenous malformation in hepatic cirrhosis
A. El Rahal (Switzerland)

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)

A rare presentation of pial arteriovenous fistula by a bilateral thalamic edema with a successful surgical treatment: a case report, and literature review
H. Aljohani (France)

CT-angiography neuronavigation in surgical treatment of vascular lesions
N. Russo (Italy)

Surgical treatment of AVMs - current approach and experiences
M. Vaverka (Czech Republic)

Curative embolization of pediatric ruptured brain AVMs by liquid embolic agents
M. Shadad (Egypt)

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. Díaz-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)
Scientific Programme

Resection of cavernous angiomas located in eloquent area using functional cortical e subcortical mapping. Our experience
A. Bua (Italy)

Intracranal pial arteriovenous fistula (pAVF): an underestimated pathology?
L. Aste (Italy)

Spinal dural arteriovenous fistula: Is there a role for intra-operative contrast enhanced ultrasound?
M. Del Bene (Italy)

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)

Arteriovenous fistulae of the filum terminale: report of 4 cases with video examples and literature review
G. Lanzino (United States)

Spinal vascular malformations: management and outcome
Y. Orz (Saudi Arabia)

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
T. Kawano (Japan)

Enhanced axonal extension of subcortical projection neurons isolated from murine embryonic cortex using surface fluorescence activated cell sorting
N. Sano (Japan)
Scientific Programme

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
V. Lukshin (Russian Federation)

Profiling of circulating microRNAs as biomarkers of moyamoya disease: differential expressions in discordant monozygotic twins
H. Uchino (Japan)

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)

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)

Stroketomy and cisterns opening: a possible treatment for malignant MCA stoke
F. Tartara (Italy)
Analysis of risk factors for hyperperfusion syndrome after revascularization surgery for moyamoya disease
R. Tsuchiya (Japan)

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)

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
R. Moussa (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: a 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 putaminal 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)

Surgical treatment for non-atherosclerotic carotid lesions
V. Lukshin (Russian Federation)

Antiplatelet and anticoagulant therapy in carotid endarterectomies
M. Orlický (Czech Republic)

High cervical antero lateral retropharyngeal approach is this the twilight zone?
N. Alshafai (Canada)

Comparative MRI study on patients affected by L5-S1 disc herniation treated by microdiscectomy or endoscopic discectomy
P. Cervellini (Italy)

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
S.H. Lee (Korea, Republic of)

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
D.W. Son (Korea, Republic of)
Scientific Programme

Feasibility of posterior cervical foraminotomy in cervical foraminal stenosis: prediction of surgical outcomes by the foraminal shape on preoperative computed tomography
B.S. Gu (Korea, Republic of)

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)

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??
B. Ott (France)

The use of neuronavigation and intraoperative imaging in spinal stabilization surgery
C. Temiz (Turkey)

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?
V.E. Staartjes (Netherlands)
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)

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)

Efficacy of microendoscopic decompression in lumber 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. Zapuhlih (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
A. Sattarov (Uzbekistan)

Surgical treatment of high degree spondilolisthesis (spondioliptosis)
S. Saidov (Uzbekistan)

Facet joint disease: to fix or not to fix? Biomechanics and role of surgery
M. Abdalla (Saudi Arabia)
Scientific Programme

- **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**
  R. Roperto (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)

- **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)

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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)

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
D.. Teguo Djoyum (United States)

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)

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. Halamanardis (United States)

How Africa can benefit from EANS, how EANS can benefit from Africa: the neurosurgical trainee in focus!
G.S. Gwenero (Zimbabwe)

Catch them young! analysis of attitude of interns towards neurosurgery after a structured exposure
A. Thapa (Nepal)

Getting personal: are UK neurosurgeons adopting a patient-centered model of consent?
C. McKinnon (United Kingdom)
Scientific Programme

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)

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
N. Thakur (Germany)

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)

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)
Scientific Programme

General
20:00 - 21:30

Welcome Reception
not accredited
Scientific Programme

Monday, 02 October 2017

Neuro-oncology  
08:45 - 10:40  
Sala Grande

**Plenary Session: Neuro-oncology**

**Chairs:**  
A. Olivi (Italy)  
C. Watts (United Kingdom)

- **Current concepts in the management of high-grade gliomas**  
  C. Watts (United Kingdom)  
  08:45 - 09:05

- **Current concepts in the management of low-grade gliomas**  
  M. Skrap (Italy)  
  09:05 - 09:25

- **Current concepts in the management of cerebral metastases**  
  P. Metellus (France)  
  09:25 - 09:45

- **Brain mapping and neuroplasticity in diffuse low-grade gliomas**  
  H. Duffau (France)  
  09:45 - 10:05

- **Non-surgical management of patients with brain cancer**  
  R. Soffietti (Italy)  
  10:05 - 10:25

- **Career award lecture**  
  F. Tomasello (Italy)  
  10:25 - 10:40

**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

**Chairs:**  
F. DiMeco (Italy)  
K. Schaller (Switzerland)

- **Is there a role for simulation?**  
  F. DiMeco (Italy)  
  09:00 - 09:10

- **The challenge of neurosurgical training: Past, present and future outlook**  
  K. Schaller (Switzerland)  
  09:10 - 09:20
**Scientific Programme**

**Cadavers and simulation: A new complementary way of surgical training?**  
T.R. Meling (Norway)  
E. Tessitore (Switzerland)  

**Advanced digital technology, mixed reality and simulation in neurosurgery**  
J. Bederson (United States)  

**Paving the way to something new in neurosurgical education**  
A. Perin (Italy)  

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**General**  
10:00 - 12:00  
Sala Welles  

**1st European Neurosurgery Simulation Session - ongoing sessions**  
not accredited  

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**Neuro-oncology**  
11:20 - 13:05  
Sala Grande  

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

**Chairs:**  
M. Arraez (Spain)  
M. Bruneau (Belgium)  

**Controversies and guidelines for the management of patients with meningiomas**  
R. Goldbrunner (Germany)  

**A Simple Answer to Complex Meningiomas**  
O. Al-Mefty (United States)  

**Using controversies to create solutions in neurosurgery**  
A. Scarrow (United States)  

**Current understanding of genetic heterogeneity in meningiomas**  
T. Santarius (United Kingdom)  

**Supraorbital keyhole approach in the management of anterior cranial fossa meningiomas**  
P. Selviaridis (Greece)  

**Upfront 5-fraction stereotactic radiosurgery for petro-clival meningiomas**  
A. Conti (Italy)  

**The Anaplastic Meningioma International Consortium (AMiCo) retrospective study of treatment and outcome of patients with anaplastic meningiomas**  
A. Young (United Kingdom)
Scientific Programme

Spinal Neurosurgery 1: Spinal Navigation and Intraoperative High-tech

Chairs:
A. Romano (Italy)
M. Vukic (Croatia)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>11:20 - 11:35</td>
<td>Spinal navigation (CON)</td>
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<td></td>
<td>Y.-M. Ryang (Germany)</td>
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<tr>
<td>11:35 - 11:50</td>
<td>Spinal navigation (PRO)</td>
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<td>M. Ivanov (United Kingdom)</td>
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<tr>
<td>11:50 - 12:05</td>
<td>Precision screws using neuronavigation</td>
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<td>C. Raftopoulos (Belgium)</td>
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<td>12:05 - 12:20</td>
<td>O-arm use in spine surgery may be an option</td>
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<td>M. Cunha e Sa (Portugal)</td>
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<tr>
<td>12:20 - 12:35</td>
<td>D-wave monitoring during surgery for intramedullary spinal cord tumors:</td>
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<td>Myth and reality on a consecutive series of 248 patients</td>
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<td>F. Sala (Italy)</td>
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<td>12:35 - 12:42</td>
<td>Posterior lumbar decompression and fusion using an intraoperative 3D</td>
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<td>imaging-based navigation system for lumbar degenerative diseases</td>
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<td>S. Cardali (Italy)</td>
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<td>12:42 - 12:49</td>
<td>Spinal navigation: less radiation more accuracy</td>
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<td>G. Innocenzi (Italy)</td>
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<td>12:49 - 12:56</td>
<td>Intraoperative Ziehm Vision RFD 3D C-arm imaging combined with</td>
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<td>brainlab spinal navigation in intrumented spinal procedures: technical</td>
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<td>notes and pilot study</td>
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<td></td>
<td>L. Sprenger (Switzerland)</td>
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<tr>
<td>12:56 - 13:03</td>
<td>Cortical trajectory TLIFs associated with less blood loss and better</td>
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<td>disposition than pedicle trajectory and posterolateral fusions: a</td>
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<td>retrospective cohort study</td>
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<td></td>
<td>D. Refai (United States)</td>
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Neurotrauma and Critical Care 1: Management of Severe TBI

Chairs:
S. Signoretti (Italy)
A. Valadka (United States)

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:20 - 11:35</td>
<td>Severe TBI in patients with impaired coagulation</td>
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<tr>
<td></td>
<td>A. Unterberg (Germany)</td>
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<tr>
<td>11:35 - 11:50</td>
<td>DC in low-income countries</td>
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<td></td>
<td>C. Iaccarino (Italy)</td>
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</tbody>
</table>
Decompressione craniectomy in children: A procedure with different indication and outcomes
A. Cama (Italy)

The effects of hyperbaric oxygen on traumatic brain injury patients suffering from chronic neurocognitive defects - correlation between cognitive functions and brain metabolic imaging
A. Hadanny (Israel)

Disaster response: advancing neurosurgery and global healthcare
R. Andrews (United States)

On management of optimal cerebral perfusion pressure for severe traumatic brain injury patients
A. Preiksaitis (Lithuania)

Cerebral perfusion pressure insults and associations with outcome in adult traumatic brain injury
B. Depreitere (Belgium)

Reoperations in the surgery of traumatic acute subdural hematoma
I. Heino (Finland)

Intracranial pressure monitoring after primary decompressive craniectomy in traumatic brain injury: speculative tool or guide for therapy?
C. Iaccarino (Italy)

Open book bifrontal osteoplastic craniotomy: technique for a well vascularised cosmetic flap in trauma
A. Thapa (Nepal)

Hematopoietic stem cell growth factors improve recovery in the subacute phase of experimental traumatic brain injury
L. Chin (United States)

Hemicraniectomy in ischemic stroke: an update
M. Fontanelia (Italy)

SAH and hematomas - different strategies
A. Pasqualin (Italy)

Microsurgical and endovascular management of PICA aneurysms
M. Sames (Czech Republic)

Current bypass indication and classification
G. Esposito (Switzerland)
**Scientific Programme**

**Decompressive craniectomy in poor-grade aneurysmal subarachnoid haemorrhage**
A. Airapetyan (Russian Federation)  
12:20 - 12:27

**Prophylaxis, diagnosis and therapy of delayed cerebral ischemia in patients with aneurysmal subarachnoid hemorrhage in Germany: a nation-wide survey**
S. Hernandez Duran (Germany)  
12:27 - 12:34

**Biomechanics of aneurysms’ wall: a multi-scale study**
F. Signorelli (Italy)  
12:34 - 12:41

**Impacting treatment of brain AVMs by nTMS**
S. Ille (Germany)  
12:41 - 12:48

**Draining vein shielding in intracranial AVM's during gamma-knife: a new way of preventing post gamma-knife edema and hemorrhage**
D. Agrawal (India)  
12:48 - 12:55

**Early Drain Trial - prospective study on the use of lumbar drainage after SAH**
P. Vajkoczy (Germany)  
12:55 - 13:02

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**Pediatric Neurosurgery**  
11:20 - 13:05  
Sala Pasinetti

**Pediatric Neurosurgery 1: Philosophy of Craniopharyngioma Treatment**

**Chairs:**
W. Couldwell (United States)  
N. Oyesiku (United States)

**Philosophy of craniopharyngioma treatment**
J. Wisoff (United States)  
11:20 - 11:35

**Management of craniopharyngioma in children**
C. Di Rocco (Germany)  
11:35 - 11:50

**Proton vs. photons in children**
C. Alapetite (France)  
11:50 - 12:05

**Pediatric craniopharyngioma: A critical reappraisal of the intracystic treatment with interferon**
G. Tamburrini (Italy)  
12:05 - 12:12

**Endoscopic skull base reconstruction techniques: tips and tricks**
F. Pozzi (Italy)  
12:12 - 12:19

**Suprasellar craniopharyngiomas involving the third ventricle: the role of the endoscopic endonasal surgery**
D. Mazzatenta (Italy)  
12:19 - 12:26

**Intracranial aneurysms in children. A personal experience of 46 cases.**
A.V. Ciurea (Romania)  
12:26 - 12:36
Scientific Programme

**Diagnosis and treatment of cavernous malformations of the brain in children**  
M. Livshits (Russian Federation)  
12:36 - 12:43

**Multidisciplinary management of AVMs in children**  
A. Iliescu (Romania)  
12:43 - 12:50

**Multimodality management of pediatric intracranial arteriovenous malformations (AVM)**  
Y. Orz (Saudi Arabia)  
12:50 - 12:57

**Moyamoya disease: a rare cause of stroke in Scandinavia. Preliminary results of a Danish population based study**  
P. Birkeland (Denmark)  
12:57 - 13:04

Neuro-oncology  
11:20 - 13:05

**Oral Presentations**  
Sala Mangano  

**Chairs:**  
V. Esposito (Italy)  
I. Germano (United States)

**Von Hippel-Lindau disease: an evaluation of natural history and functional disability**  
A. Feletti (Italy)  
11:20 - 11:25

**Navigated 3D FLAIR and 5-ALA fluorescence guided surgery in high-grade gliomas: an intraoperative imaging protocol for supramaximal tumor resection**  
G. Barbagallo (Italy)  
11:25 - 11:30

**Baseline and intraoperative serum lactate levels used as indicators for intracranial tumor malignancy**  
J. Golubović (Serbia)  
11:30 - 11:35

**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**  
R. Xie (China)  
11:35 - 11:40

**Melatonin and cortisol secretion profile in patients with pineal cyst before and after pineal cyst resection**  
M. Majovsky (Czech Republic)  
11:40 - 11:45

**Temporal changes in vestibular schwannoma incidence in the East of England**  
Y. Wan (United Kingdom)  
11:45 - 11:50

**Modified Dolenc-Kawase approach for large petroclival region tumors: quantitative comparative analysis with Kawase’s approach**  
M. Tripathi (India)  
11:50 - 11:55
### Scientific Programme

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>11:55 - 12:00</td>
<td>Stromal cells of hemangioblastomas exhibit mesenchymal stem cell-derived vascular progenitor cell properties</td>
<td>S. Takada (Japan)</td>
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<tr>
<td>12:00 - 12:05</td>
<td>Validation of grading scores and outcome prognostic factors in elderly intracranial meningiomas</td>
<td>J. Delgado-Fernandez (Spain)</td>
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<tr>
<td>12:05 - 12:10</td>
<td>Individual designed approaches and microsurgery for huge petrous bone-invasive tumors: report of 57 cases</td>
<td>X. Liu (China)</td>
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<tr>
<td>12:10 - 12:15</td>
<td>Fibronectin-adherent peripheral blood derived mononuclear cells as Paclitaxel carriers for glioblastoma treatment: an in vitro study</td>
<td>F. Restelli (Italy)</td>
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<tr>
<td>12:15 - 12:20</td>
<td>Gamma knife surgery versus surgery or radiation therapy for cavernous sinus cavernous hemangioma</td>
<td>J. Cho (Korea, Republic of)</td>
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<tr>
<td>12:20 - 12:25</td>
<td>The outcome of management of a series of Grade III intracranial meningiomas</td>
<td>F. Rasul (United Kingdom)</td>
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<tr>
<td>12:25 - 12:30</td>
<td>Rhabdoid meningioma: a single unit experience of treatment for a rare and aggressive variant and review of the literature</td>
<td>D. Jeyaretna (United Kingdom)</td>
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<tr>
<td>12:30 - 12:35</td>
<td>Remote ischemic preconditioning in the surgical treatment of brain tumors: a pilot randomized controlled trial</td>
<td>J. Gempt (Germany)</td>
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<tr>
<td>12:35 - 12:40</td>
<td>Diffuse gliomas exhibit whole brain impaired cerebrovascular reactivity</td>
<td>J. Fierstra (Switzerland)</td>
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<tr>
<td>12:40 - 12:45</td>
<td>A systematic review of the health economics impact of 5-ALA in high grade glioma surgery</td>
<td>R. Zewude (Canada)</td>
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<tr>
<td>12:45 - 12:50</td>
<td>siRNA silencing of the shuttling protein karyopherin a2 inhibits gliomagenesis in vitro</td>
<td>K. Gousias (Germany)</td>
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<tr>
<td>12:50 - 12:55</td>
<td>Gliosarcomas. Which are the factors associated with better survival?</td>
<td>R. Ramos (Portugal)</td>
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<tr>
<td>12:55 - 13:00</td>
<td>Clinical characteristics and course of brain abscess</td>
<td>N. Hofmann (Germany)</td>
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Scientific Programme

General
11:20 - 13:05
Sala Martinelli

Microscopic or Endoscopic Approaches to Skull Base

Chairs:
F.F. Angileri (Italy)
D. Grujicic (Serbia)

Olfactory neuroblastoma: A single-center experience
T.R. Meling (Norway) 11:20 - 11:35

Endoscopic Endonasal approach for posterior fossa meningioma
D. Mazzatenta (Italy) 11:35 - 11:50

Surgical outcome of the transsphenoidal approach in patients ≥ 70 years with sella pathologies
Y. Wang (Germany) 11:50 - 11:57

Impact of Matrix Metalloproteinases (MMPs)- 1, -7, and -9 on pituitary adenomas
N. Balak (Turkey) 11:57 - 12:04

Low O6-methylguanine-DNA methyltransferase (MGMT) and Pan-cytokeratin (Pan CK) expression via immunohistochemistry in pituitary adenomas
N. Balak (Turkey) 12:04 - 12:11

Pituitary endoscopic surgery: the mononostril, two-hands three-instruments technique
C. Serra (Switzerland) 12:11 - 12:18

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
J.H. Moon (Korea, Republic of) 12:18 - 12:25

Endoscopic endonasal approach to Meckel Cave Neuromas
M. Zoli (Italy) 12:25 - 12:32

Endoscopic surgery of pituitary adenomas invading the III ventricle. Complications and outcome
M. Guk (Ukraine) 12:32 - 12:39

Endoscopic transorbital approach: an alternative for sphenoorbital lesion
C. Zoia (Italy) 12:39 - 12:46

Evaluation of intranasal flap perfusion by intraoperative ICG fluorescence angiography
P. Gardner (United States) 12:46 - 12:58

Residual and recurrent disease after endoscopic endonasal approach to midline anterior skull base meningiomas
P. Gardner (United States) 12:58 - 13:05
Scientific Programme

General
11:20 - 13:05 Sala Zorzi

Science Slam
A unique event where innovative scientific studies on neurosurgery are presented in a particularly entertaining way. Neurosurgeons under 40 were previously invited to submit their work and the top five candidates will present their work "live" with the winner being chosen by the audience.

The competition is chaired by Luca Regli, and the panel consists of Morgan Broggi, Christian Freyschlag, Miikka Korja, Wouter Moojen and Martin N. Stienen.

Chairs:
L. Regli (Switzerland)

Introduction / 80 years USZ
11:20 - 11:30
L. Regli (Switzerland)
M.N. Stienen (Switzerland)

Finalist's round: EANS & USZ Science Slam 2017
11:30 - 11:40
E. Shiban (Germany)

Finalist's round: EANS & USZ Science Slam 2017
11:40 - 11:50
R. Gondar (Switzerland)

Finalist's round: EANS & USZ Science Slam 2017
11:50 - 12:00
J. Szczygielski (Germany)

Finalist's round: EANS & USZ Science Slam 2017
12:00 - 12:10
A. Meola (United States)

Finalist's round: EANS & USZ Science Slam 2017
12:10 - 12:20
A. Mangraviti (Italy)

Selection and award of the winner
12:20 - 12:35

Spinal Neurosurgery
11:20 - 12:20 Sala Beatty

Meet the Experts Seminar 1

Endoscopic versus transoral resection of upper cervical pathologies
11:20 - 11:40
P. Gardner (United States)

Endoscopic versus transoral resection of upper cervical pathologies
11:40 - 12:00
M. Iacoangeli (Italy)

Endoscopic versus transoral resection of upper cervical pathologies
12:00 - 12:20
V. Sonntag (United States)

Vascular Neurosurgery
11:20 - 12:20 Sala Kubrick

Meet the Experts Seminar 2
Scientific Programme

Cerebro-occlusive disease and current indications for revascularization 11:20 - 11:40
A. Dehdashti (United States)

Cerebro-occlusive disease 11:40 - 12:00
G. Lanzino (United States)

Cerebro-occlusive disease 12:00 - 12:20
P. Vajkoczy (Germany)

Neuro-oncology 11:20 - 12:20 Sala Bardot

Meet the Experts Seminar 3 11:20 - 11:40
Complex meningiomas 11:20 - 11:40
F. Chioffi (Italy)

Complex meningiomas 11:40 - 12:00
I. Kanaan (Saudi Arabia)

Complex meningiomas 12:00 - 12:20
F. Maiuri (Italy)

Corporate Symposium 13:25 - 14:25 Sala Perla

Industry-Sponsored Symposium

Corporate Symposium 13:25 - 14:25 Sala Casinò

Industry-Sponsored Symposium

General 13:25 - 14:25 Sala Mangano

Peripheral Nerves Diseases

Chairs:
S. Ferraresi (Italy)
L. Rasulic (Serbia)

Controversies and dilemmas in surgery of injuries and diseases of peripheral nerves 13:25 - 13:35
L. Rasulic (Serbia)

Nerve transplantation across cryopreserved allografts from cadaveric donors in peripheral nerves reconstruction 13:35 - 13:42
G. Stevanato (Italy)
**Scientific Programme**

**Targeting the molecular mechanism of foreign body reaction (FBR) to peripheral neural interface**
D.G. Barone (United Kingdom) 13:42 - 13:49

**Evaluation of 25 patients with cubital tunnel syndrome operated under local anestesia or using axillary block**
N. Ucler (Turkey) 13:49 - 13:56

**A nationwide analysis of 30-day readmission and adverse events after peripheral nerve surgery in extremities using NSQIP**
E. Martin (Netherlands) 13:56 - 14:03

**Timing of surgery in traumatic brachial plexus injury: a systematic review**
E. Martin (Netherlands) 14:03 - 14:10

**Iatrogenic injury to the brachial plexus: causative mechanisms, treatment and functional patient outcome**
N.F. Dengler (Germany) 14:10 - 14:17

**The peripheral nerve tumor registry: design of a prospective observational study and preliminary retrospective two-year-analysis**
N.F. Dengler (Germany) 14:17 - 14:24

**General**
13:25 - 14:25 Sala Martinelli

**Oral Presentations**

**Chairs:**
S. Mondello (Italy)
G. Pavesi (Italy)

**Clinical studies of the utility of blood-based protein biomarker as diagnostic signatures for traumatic brain injury**
S. Mondello (Italy) 13:25 - 13:30

**Segmental spinal dysgenesis associated with occult dysraphism: considerations on management strategies**
F. Cacciola (Italy) 13:30 - 13:35

**Stem cell therapy in ischemic stroke. CELICTUS clinical trial. Technical note**
F. Rascón-Ramírez (Spain) 13:35 - 13:40

**Strokectomy and cistern opening: a possibile treatment for malignant cerebellar stroke**
F. Tartara (Italy) 13:40 - 13:45

**Volumetric analysis of the Insula using MRI - a possible surrogate marker for post-operative seizure persistence in refractory mesial temporal lobe epilepsy?**
A. Chawira (United Kingdom) 13:45 - 13:50

**Lipofuscin in the epileptic brain**
K. Hakvoort (Netherlands) 13:50 - 13:55
Scientific Programme

Cyberknife radiosurgery for trigeminal neuralgia  
P. Romanelli (Italy)  
13:55 - 14:00

Evaluation of the iSYS1® robot for frameless brain biopsy: a prospective, exploratory pilot study  
F.G. Legnani (Italy)  
14:00 - 14:05

Resection of pineal cysts - to do or not to do?  
A. El Damaty (Germany)  
14:05 - 14:10

Anterior cingulotomy for intractable oncological pain  
A. Berger (Israel)  
14:10 - 14:15

Resection of pineal cysts - to do or not to do?  
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Anterior cingulotomy for intractable oncological pain  
A. Berger (Israel)  
14:10 - 14:15

The Ethiopian neurosurgery outcome monitoring database: development and progress with emphasis on neurotrauma  
T.L. Teklemariam (Ethiopia)  
14:15 - 14:20

Optimising the pressure of shunt-valves in newborns  
T. Freiman (Germany)  
14:20 - 14:25

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)  
L. Regli (Switzerland)  
P. Vajkoczy (Germany)

Innovation in cerebrovascular disease and stroke  
F. Charbel (United States)  
14:35 - 14:55

Strategies in cerebrovascular microsurgery: has surgical risk changed in the last decades?  
L. Regli (Switzerland)  
14:55 - 15:15

Ten year results of BRAT  
R. Spetzler (United States)  
15:15 - 15:35

The science, art, facts and biases in endovascular and microsurgical management of aneurysms in 2017  
J. Morcos (United States)  
15:35 - 15:55

European consensus conference on AVM Treatment: AVM beyond ARUBA  
M. Cenzato (Italy)  
15:55 - 16:15
The Neurosurgeon as surgeon scientist - a lost art?
P. Vajkoczy (Germany)

Vascular Neurosurgery
17:10 - 18:55

Sala Grande

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

Chairs:
D. Barrow (United States)
J.M.C. van Dijk (Netherlands)
C. Bortolotti (Italy)

Do long term follow-up studies question the 'coil first policy' in aneurysm treatment? (Anchor)
D. Barrow (United States)

Do long term follow-up studies question the "coil first policy" in aneurysm treatment? (Interventionalist View)
E. Boccardi (Italy)

Do long term follow-up studies question the "coil first policy" in aneurysm treatment? (Surgeons View)
V. Seifert (Germany)

Do long term follow-up studies question the "'endarterectomy first policy'" in treatment of carotidocclusive disease? (Anchor)
C. Bortolotti (Italy)

Do long term follow-up studies question the 'endarterectomy first policy' in treatment of carotidocclusive disease? (Interventionalist View)
J. Boogaarts (Netherlands)

Do long term follow-up studies question the 'endarterectomy first policy' in treatment of carotidocclusive disease? (Surgeons View)
V. Benes Jr. (Czech Republic)

ICH: Operate on more patients vs be more selective? (Surgeons View)
M. Zuccarello (United States)

ICH: Operate on more patients vs be more selective? (Conservative View)
B. Brouwers (Netherlands)

Role of endovascular vs surgery in spinal dural AVFs (Anchor)
J.M.C. van Dijk (Netherlands)

Role of endovascular vs surgery in spinal dural AVFs (Interventionalist View)
F. Causin (Italy)

Role of endovascular vs surgery in spinal dural AVFs (Surgeons View)
A. Andreou (Greece)
Scientific Programme

Neuro-oncology
17:10 - 18:55

Sala Perla

**Neuro-oncology 2: Cerebellopontine Angle**

**Chairs:**
F. Calbucci (Italy)
A. Mazzoni (Italy)

- **Management of CPA Meningiomas: The Good, The Bad, and The Ugly**
  A. Nanda (United States)  
  17:10 - 17:25

- **Surgery vs. radiosurgery of vestibular schwannomas: A two-centre comparative study**
  M. Tatagiba (Germany)  
  17:25 - 17:40

- **The fate of residual tumor after subtotal resection of large vestibular schwannomas**
  P.-H. Roche (France)  
  17:40 - 17:55

- **Hearing focused management of small acoustic neuroma**
  E. Zanoletti (Italy)  
  17:55 - 18:10

- **Management of epidermoid cysts of the CPA**
  A. Samii (Germany)  
  18:10 - 18:25

- **Endoscope-assisted microsurgical resection of epidermoids and dermoids**
  H. Schroeder (Germany)  
  18:25 - 18:32

- **Endoscopic endonasal transclival removal of skull base tumors spreading to the posterior cranial fossa**
  A. Shkarubo (Russian Federation)  
  18:32 - 18:39

- **Vestibular schwannoma microsurgery for recurrent tumors after radiation therapy or previous surgical resection: a comparison with exclusive surgical treatment**
  M. Giarletta (Italy)  
  18:39 - 18:46

- **Interdisciplinary concept of treatment and training in a series of 502 vestibular schwannomas**
  C. Matthies (Germany)  
  18:46 - 18:53

Functional Neurosurgery & Radiosurgery
17:10 - 18:55

Sala Casinò

**Functional Neurosurgery and Radiosurgery 1: Controversies in DBS**

**Chairs:**
A. Conti (Italy)
P. Mertens (France)

- **Neurosurgical treatment of pain secondary to spinal injury**
  P. Mertens (France)  
  17:10 - 17:25

- **Thoracic outlet syndrome and its difficult diagnosis and surgery indication**
  E. Ferrer (Spain)  
  17:25 - 17:40
### Scientific Programme

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tr>
<td>17:40 - 17:55</td>
<td>2 years outcome of a group of tremorigene patients treated by high intensity focused ultrasound thalamotomy</td>
<td>D.G. Iacopino (Italy)</td>
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<tr>
<td>17:55 - 18:10</td>
<td>Glossopharyngeal neuralgia</td>
<td>L. Fariselli (Italy)</td>
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<td>18:10 - 18:17</td>
<td>Deep brain stimulation: the influence of gradient directions and predefined seeds on deterministic and probabilistic fibertracking</td>
<td>J. Schlaier (Germany)</td>
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<td>18:17 - 18:24</td>
<td>The other side of cervical dystonia (CD): our report on 31 cases</td>
<td>F. Caputi (Italy)</td>
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<tr>
<td>18:24 - 18:31</td>
<td>Multimodal percutaneous treatment of trigeminal neuralgia: our experience in 1000 cases</td>
<td>F. Caputi (Italy)</td>
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<tr>
<td>18:31 - 18:38</td>
<td>Treatment of trigeminal neuralgia refractory to medical therapy: role of radiosurgery, microvascular decompression, and percutaneous procedures in the modern era</td>
<td>M.F. Fraioli (Italy)</td>
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<td>18:38 - 18:45</td>
<td>Microvascular decompression for trigeminal neuralgia: preliminary results and an open invitation to join a European multicenter retrospective study</td>
<td>E. Shiban (Germany)</td>
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<tr>
<td>18:45 - 18:52</td>
<td>Adaptive DBS: local field potentials, wearables or both?</td>
<td>P. Kubben (Netherlands)</td>
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**Spinal Neurosurgery**

**17:10 - 18:55** Sala Volpi

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<tr>
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<tr>
<td>17:10 - 18:25</td>
<td>Spinal Metastases: Is Intralesional Ablation the Future? (PRO)</td>
<td>F. Ringel (Germany)</td>
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<tr>
<td>17:25 - 17:40</td>
<td>Spinal Metastases: Is Intralesional Ablation the Future? (CON)</td>
<td>W. Moojen (Netherlands)</td>
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<tr>
<td>17:40 - 17:50</td>
<td>Status of endoscopic spine surgery: Experience of 10 years</td>
<td>J. Oertel (Germany)</td>
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<td>17:50 - 17:57</td>
<td>Percutaneous intradiscal radio-frequency thermocoagulation: an alternative to invasive surgery for discogenic low back pain</td>
<td>M. Dibenedetto (Italy)</td>
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<tr>
<td>17:57 - 18:04</td>
<td>Significant morbidity and reoperation rates at 2 years in a prospectively enrolled lumbar discectomy population with large anular defects</td>
<td>G.J. Bouma (Netherlands)</td>
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Scientific Programme

**Surgery for lumbar disc herniation in individuals aged 65 and older: a multicenter observational study**
S. Gulati (Norway) 18:04 - 18:11

**Outpatient lumbar microdiscectomy in France: from an economic imperative to a clinical standard - an observational study of 201 cases**
B. Debono (France) 18:11 - 18:18

**Evidences from a literature analysis about laminoplasty in cervical spinal diseases**
N. Montano (Italy) 18:18 - 18:25

**Time factor and disc herniation size: are they really predictive for outcome in patients with cauda equina syndrome?**
R. Kaiser (Czech Republic) 18:25 - 18:32

**A prospective study of interbody fat graft application with the anterior contralateral cervical microdiscectomy to preserve segmental mobility**
Y. Aydin (Turkey) 18:32 - 18:39

**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**
P. Mendivil (Argentina) 18:39 - 18:46

**Intraoperative neurophysiological monitoring for intradural spinal tumors: analysis of predictive value and relevance on surgical outcome during a ten-year experience**
D. Nasi (Italy) 18:46 - 18:53

**Pediatric Neurosurgery**
17:10 - 18:55 Sala Pasinetti

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

**Chairs:**
S. Constantini (Israel)
V. Baro (Italy)

**Changes in Chiari-management during the last decade**
M. Messing-Jünger (Germany) 17:10 - 17:25

**Chiari I Malformation: Should we operate pictures or children? Proposal of a diagnostic and therapeutic flow chart based on a series of 580 monoinstitutional cases**
L.G. Valentini (Italy) 17:25 - 17:40

**Neuromonitoring in cranio-spinal decompression**
F. Sala (Italy) 17:40 - 17:55

**Chiari I Malformation in children. When we decide not to operate: Our experience in a series of 180 patients**
P. Peretta (Italy) 17:55 - 18:05
Scientific Programme

18:05 - 18:12
Management of cases of chiari malformation type i associated with hydrocephalus, a series of 16 patients
A. Elwany (Egypt)

18:12 - 18:19
Is it safe to return the bone flap after drainage of intracranial empyema?
R. Keating (United States)

18:19 - 18:26
Use of neuronavigation systems - efficacy in shunt placement
S.M. Florea (France)

18:26 - 18:33
Children's ventriculoperitoneal shunts complications in Abidjan (Côte d'Ivoire): a retrospective study
M.Y.E. Broalet (Côte d'Ivoire)

18:33 - 18:40
Radiation-free 3D head shape and volume evaluation after endoscopically assisted strip craniectomy followed by helmet therapy for scaphocephaly
G. de Jong (Netherlands)

18:40 - 18:47
Results with the application of bioresorbable implant systems in pediatric craniofacial surgery in the context of craniosynostosis
J. Santiago (Portugal)

18:47 - 18:54
Diagnostic and early treatment of craniosynostosis in neonatal patients assisted by 3D endoscopic craniectomy
J.C. Roa Montes de Oca (Belgium)

General
17:10 - 18:55
Sala Mangano

Acta Neurochirurgica 'Meet the Editor' Session

Chairs:
T. Mathiesen (Denmark)
K. Schaller (Switzerland)

17:10 - 17:20
Welcome - what happens to the manuscript after submission
T. Mathiesen (Denmark)

17:20 - 17:30
To reject for ethical reasons
N. Oyesiku (United States)

17:30 - 17:40
The case report that makes a difference between 0 and 1
J. Morcos (United States)

17:40 - 17:50
A retrospective case series - how can it attract the reviewer and get priority for publication
A. Dehdashti (United States)

17:50 - 18:00
Tips and tricks for a better manuscript
D. Epstein (United Kingdom)

18:00 - 18:10
What is IF and will IF:s be replaced by other metrics
K. Schaller (Switzerland)
Scientific Programme

Breaches of publication ethics
T. Mathiesen (Denmark) 18:10 - 18:20

Panel discussion - What is the editor looking for
T. Mathiesen (Denmark) 18:20 - 18:55
A. Grotenhuis (Netherlands)

General
17:10 - 18:55 Sala Martinelli

Oral Presentations

Chairs:
A. Alfieri (Germany)
B. Masotto (Italy)

High resolution micro-ECoG studies of human sensorimotor cortex during finger movements
C.-H. Kuo (United States) 17:10 - 17:15

Microsurgical anatomy, electrophysiology, and clinical functions of the nervus intermedius. Consequences for the vestibular schwannoma surgery
A. Alfieri (Germany) 17:15 - 17:20

Level Specific CE-Chirp® BAEP’s: a new faster technique in neuromonitoring cochlear nerve during skull base surgery
E. Di Scipio (Italy) 17:20 - 17:25

The surgical management of meningioma-vestibular schwannoma collision tumors of the cerebellopontine angle in patients with Neurofibromatosis type 2
S.D. Adib (Germany) 17:25 - 17:30

Semisitting position in neurosurgery - a controversy not yet solved
Y. Ceccaroni (Italy) 17:30 - 17:35

Tentorial incision versus retraction of the tentorial edge during the subtemporal approach: anatomical comparison in cadaveric dissections and retrospective case study
E. Archavlis (Germany) 17:35 - 17:40

Is it right to use destructive procedures before decompression in cases of symptomatic trigeminal neuralgias joined with extra-axial tumors?
V. Fedirko (Ukraine) 17:40 - 17:45

E-WIN Project 2016: evaluating the current gender situation in neurosurgery across Europe. An interactive, multiple-level survey
A. Steklacova (Czech Republic) 17:45 - 17:50

Early posterior fossa decompressive cranietomy as a life-saving procedure for acute post-operative cerebellar swelling
M. Broggi (Italy) 17:50 - 17:55
Positive relationship between the contact time of scalp disinfectant and reduction in post-craniotomy infections 17:55 - 18:00
H.L. Low (United Kingdom)

Visual inputs modulate brain activity in language areas 18:00 - 18:05
J. Plata Bello (Spain)

Vestibular schwannoma surgery learning curve: modern series of a young neurosurgeon 18:05 - 18:10
E. Shiban (Germany)

30-day complication rate following cranioplasty: incidence and predictors 18:10 - 18:15
E. Shiban (Germany)

Usefulness of routine pre-operative coagulation profile for elective craniotomy 18:15 - 18:20
N. Akhunzada (Pakistan)

E. Liouta (Greece)

Chronologic CT analysis of bone fusion and bone resorption comparing bone flap gap after craniotomy and cranioplasty 18:25 - 18:30
S.-H. Kang (Korea, Republic of)

RCTs in neurosurgery comparing surgery versus best medical treatment 18:30 - 18:35
E. Martin (Netherlands)

Burr hole microsurgical approach for intracranial tumors. Results of 142 consecutive cases 18:35 - 18:40
D.I. Pitskhelauri (Russian Federation)

Three-dimensional custom-made titanium implant in cranioplasty operations 18:40 - 18:45
O. Tehli (Turkey)

Application of eyetracking for objectifying attention and memory characteristics: a reference database for research in neurosurgery 18:45 - 18:50
G. Danilov (Russian Federation)

Neuro-oncology
17:10 - 18:55

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

Clinical trials on brain mets 17:10 - 17:20
C. Carapella (Italy)

Modern management of rare brain metastases in adults 17:20 - 17:27
C. Lumenta (Germany)
Scientific Programme

Toxicity and efficacy of Gamma Knife radiosurgery for brain metastases in melanoma patients with immune therapy 17:27 - 17:34
B. Gatterbauer (Austria)

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 17:34 - 17:41
C.A. Donofrio (Italy)

5-ALA is a promising intraoperative marker for identification of tumor infiltration in the surrounding brain tissue of brain metastases 17:41 - 17:48
P.A. Mercea (Austria)

Reduction in brain and hippocampal radiation doses by repeated radiosurgery for brain metastasis in lieu of whole brain radiotherapy: implications for neuro-cognition 17:48 - 17:55
D. Prasad (United States)

Multiparametric MRI for dynamic control and early recurrence signs assessment in patients with cerebral metastases after radiosurgery 17:55 - 18:02
V. Stepanov (Russian Federation)

Pre-and intraoperative multimodal imaging for treatment of brain metastasis in eloquent areas: a new paradigm for microsurgical treatment? 18:02 - 18:09
G. Raffa (Italy)

Clinical course specific features of pituitary metastatic lesion 18:09 - 18:16
D. Teslenko (Ukraine)

MRI radiomics analysis of molecular alternation in low-grade gliomas 18:16 - 18:23
B. Shofty (Israel)

Simulation based consultations for patients with cranial tumors and cerebrovascular pathology 18:23 - 18:30
L. Schlachter (United States)

Direct evidence of the neurovascular coupling of the primary motor cortex using ultra high-frequency ultrasound imaging in human 18:30 - 18:37
F. Almairac (France)

Venous thromboembolism after craniotomy for primary malignant brain tumors: a national surgical quality improvement program analysis 18:37 - 18:44
J.T. Senders (Netherlands)

A novel minimally invasive technique for iSYS1 robot-guided frameless stereotactic brain tumor biopsies 18:44 - 18:51
G. Minchev (Austria)

Vascular Neurosurgery
17:10 - 18:10 Sala Beatty

Meet the Experts Seminar 4

Complex aneurysms 17:10 - 17:30
L. Regli (Switzerland)
Scientific Programme

Complex aneurysms
Y. Kato (Japan)
17:30 - 17:50

Complex aneurysms
B. Welch (United States)
17:50 - 18:10

Pediatric Neurosurgery
17:10 - 18:10

Meet the Experts Seminar 5

Pediatric neurosurgery
G. Talamonti (Italy)
17:10 - 17:30

Pediatric neurosurgery
A. Ammar (Saudi Arabia)
17:30 - 17:50

Pediatric neurosurgery
M. Zucchelli (Italy)
17:50 - 18:10

Neurotrauma and Critical Care
17:10 - 18:10

Meet the Experts Seminar 6

Decompressive craniectomy
A. Valadka (United States)
17:10 - 17:30

Decompressive craniectomy
P. Hutchinson (United Kingdom)
17:30 - 17:50

Decompressive craniectomy in severe head injury
G. Zona (Italy)
17:50 - 18:10
Tuesday, 03 October 2017

Spinal Neurosurgery
09:00 - 10:40 Sala Grande

**Plenary session: Spinal Neurosurgery**

**Chairs:**
R. Delfini (Italy)
B. Meyer (Germany)

- **Surgery of intramedullary spinal cord tumors** 09:00 - 09:20
  N. Konovalov (Russian Federation)
- **Orthopaedic/ Neurosurgeon Integrated Spine centres. The future of Spine Surgery** 09:20 - 09:40
  J. Lafuente (Spain)
- **Decisions and dilemmas in the approach to cervical trauma** 09:40 - 10:00
  W. Moojen (Netherlands)
- **The pedicle screw: The good, the bad and the ugly** 10:00 - 10:20
  V. Sonntag (United States)
- **Spinal stenosis with degenerative listhesis: Fusion or just decompression?** 10:20 - 10:40
  C. Thomé (Austria)

**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**

**Chairs:**
F. Guida (Italy)
V. Sonntag (United States)
Scientific Programme

Laminectomy and instrumented fusion in lordosis for multilevel cervical myelopathy
V. Denaro (Italy) 11:20 - 11:35

Limits and merit of surgery in cervical chordomas
M. Vukic (Croatia) 11:35 - 11:50

Multidisciplinary approach to patients with cervical myelopathy: is it possible to identify the best responders to surgery?
E. Tessitore (Switzerland) 11:50 - 12:05

Surgery around the neuroforamen. Indications and technique for dumbbell pathology in the cervical area
S. Ferraresi (Italy) 12:05 - 12:15

Surgery for lumbar degenerative disease
R. Ghadirpour (Italy) 12:15 - 12:25

Lumbar degenerative spondylolisthesis: Posterolateral fusion or TLIF
D. Refai (United States) 12:25 - 12:37

Surgical treatment of traumatic odontoid fractures of the elderly - a morbidity and mortality analysis
A. Rienmueller (Germany) 12:37 - 12:44

Aspirin therapy discontinuation and intraoperative blood loss in spinal surgery: a systematic review
A. Cheng (United Kingdom) 12:44 - 12:51

Identifying subsets of patients with single-level degenerative disc disease for lumbar fusion: the value of prognostic tests in surgical decision making
V.E. Staartjes (Netherlands) 12:51 - 12:58

Total disc replacement vs anterior cervical decompression and fusion: a systematic review of intervention outcomes with meta-analysis
C. Findlay (United Kingdom) 12:58 - 13:05

Neuro-oncology
11:20 - 13:05 Sala Perla

Neuro-oncology 4: Extent of Resection in Glioma

Chairs:
N. Chiocca (United States)
C. Watts (United Kingdom)

Sodium fluorescein-guided resection of Glioma
I. Solaroglu (Turkey) 11:20 - 11:35

The impact of nTMS in glioma surgery: a new perspective for a revisitation of the concept of eloquence
A. Germano (Italy) 11:35 - 11:50

Fluorescence for enhancement of glioma resection - an update
W. Stummer (Germany) 11:50 - 12:05
Scientific Programme

Low-grade gliomas
L. Bello (Italy) 12:05 - 12:20

Impact of repeat surgery for low-grade gliomas
Z. Ram (Israel) 12:20 - 12:35

Glioma surgery with intraoperative mapping - balancing the onco-functional choice
K. Almdal (Denmark) 12:35 - 12:42

Surgical resection versus watchful waiting in low-grade gliomas
A. Jakola (Sweden) 12:42 - 12:49

Insular gliomas: technical improvements, results and perspectives from a surgical series of 102 patients
T. Vangelista (Italy) 12:49 - 12:56

Handheld confocal laser endomicroscopy for intraoperative optical biopsy of brain tumors
E. Belykh (United States) 12:56 - 13:03

General
11:20 - 13:05 Sala Casinò

Networks in Neurosurgery

Chairs:
V. Beneš (Czech Republic)
K. Schaller (Switzerland)

An overview of EANS/EBC activities
M. Westphal (Germany) 11:20 - 11:35

Presentation of NITS
F. Tomasello (Italy) 11:35 - 11:45

Launch of the Global Neurotrauma Outcomes Study (GNOS)
A. Kolias (United Kingdom) 11:45 - 11:55

ISNTii: The revival of Ken Sugita's and Al Rhoton's legacy
A. Grotenhuis (Netherlands) 11:55 - 12:05

Brainstem tumors
M. Arraez (Spain) 12:05 - 12:20

Pineal Region Tumours
S. Florian (Romania) 12:20 - 12:35

Surgical treatment of trigeminal neuralgia: What is clear and what is dark
A. Delitala (Italy) 12:35 - 12:50

How to combine intraop MRI and awake surgery
D. Netuka (Czech Republic) 12:50 - 13:05
Scientific Programme

Young Neurosurgeons' Session

Chairs:
E. d'Avella (Italy)
F. Ringel (Germany)

The potentials of big data analyses in medicine
A. Joannides (United Kingdom)

Ongoing trials and future trends in surgical neurooncology
C. Watts (United Kingdom)

Education in spine surgery
B. Meyer (Germany)

Current studies and potential future indications for deep brain stimulation
A. Lozano (Canada)

Perspectives in vascular neurosurgery
P. Vajkoczy (Germany)

Randomized controlled trials in neurosurgery: Discontinuation and publication outcome
A. Demetriades (United Kingdom)

Neurosurgery in the Elderly - Evidence and Controversies

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

The paradigm of geriatric neurosurgery
M. Berhouma (France)

Brain gliomas
F. Ducray (France)

Pituitary adenomas
P. Cappabianca (Italy)

Craniopharyngiomas
E. Jouanneau (France)

Intracranial benign tumors
M. Berhouma (France)

Intracerebral and subarachnoid hemorrhage
M. Ryttlefors (Sweden)
Scientific Programme

Hydrocephalus: a model of brain mechanobiology of aging.  12:29 - 12:42
E. Schmidt (France)

Degenerative cervical and lumbar spine  12:42 - 12:55
C. Ewald (Germany)

Q&A  12:55 - 13:05

Neuro-oncology  11:20 - 13:05
Sala Mangano

Neuro-oncology 5

Chairs:
A. Konovalov (Russian Federation)
B. Misra (India)

T.R. Meling (Norway)

Microsurgical treatment of colloid cysts of the third ventricle  11:35 - 11:50
A. Konovalov (Russian Federation)

Tractography applied to cranial nerves, interest skull base tumors surgery  11:50 - 11:57
T. Jacquesson (France)

A Phase II of everolimus and octreotide for patients with refractory and documented progressive meningioma (CEVOREM)  11:57 - 12:04
T. Graillon (France)

Effectiveness of preoperative facial nerve DTI tractography in surgery for large vestibular schwannoma: interim results of a prospective controlled trial  12:04 - 12:11
V. Tandon (India)

Large vestibular schwannoma with intracochlear extension: removal through translabyrinthine approach with facial bridge cochleostomy  12:11 - 12:18
C. Faccioli (Italy)

Is multisession radiosurgery more effective than singlesession radiosurgery to preserve the hearing in patients affected by a sporadic vestibular schwannoma? A randomized trial  12:18 - 12:25
L. Fariselli (Italy)

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  12:25 - 12:32
N. Boari (Italy)

Conservative and surgical treatment of patients with pineal cysts: a prospective case series of 110 patients  12:32 - 12:39
M. Majovsky (Czech Republic)
Scientific Programme

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
M. Longhi (Italy)

12:46 - 12:53
The impact of radiotherapy on visual attention and memory in patients with cavernous sinus meningioma: a pilot study
G. Danilov (Russian Federation)

12:53 - 13:00
Surgical experience in tentorial menigiomas
V. Monte (Italy)

Oral Presentations

General
11:20 - 13:05
Sala Martinelli

Oral Presentations

Chairs:
G. Catapano (Italy)
P. Perrini (Italy)

Assessing the impact of neurosurgical physician associates in two London based major trauma centres
H. Rana (United Kingdom)

11:20 - 11:25
Piezosurgical device for mini demolitive craniotomies in brain tumors surgery
I.G. Vetrano (Italy)

11:25 - 11:30
Cerebral revascularization as a reliable opportunity for dealing with some cerebrovascular diseases - personal experience
V. Georgieva (Bulgaria)

11:30 - 11:35
Cyberknife radiosurgery in cerebral arteriovenous malformations. Single center experience
A. Conti (Italy)

11:35 - 11:40
Comparative case-control study of the supraorbital eyebrow and pterional approaches for clipping of ruptured and unruptured aneurisms
A. Pichugin (Russian Federation)

11:40 - 11:45
Structural characteristics of the human intracranial aneurysm wall prone to rupture
S. Morel (Switzerland)

11:45 - 11:50
Arteriovenous malformations - a multimodal approach algorhythm. Personal experience of 244 cases (Oral presentation)
H. Ples (Romania)

11:50 - 11:55
Treatment of poor grade sub-arachnoid haemorrhage trial - TOPSAT2
B.A. Gregson (United Kingdom)

11:55 - 12:00
Bilateral impaired cerebrovascular reactivity in unilateral carotid artery disease
C.H.B. van Niftrik (Switzerland)

12:00 - 12:05
Scientific Programme

Giant and very large intracranial aneurysms: surgical strategies and technical aspects 12:05 - 12:10
M. Del Maestro (Italy)

Middle cerebral artery aneurysms - a single center twenty years' experience 12:10 - 12:15
J. Delaunois (Belgium)

Revascularization surgery in treatment of intracranial aneurysms (six-year experience) 12:15 - 12:20
N. Polunina (Russian Federation)

Relationship of anterior cerebral artery hypoplasia/aplasia and anterior communicating artery aneurysm 12:20 - 12:25
U. Eroglu (Turkey)

Does Size matter? - Risk of rupture of small anterior circulation aneurysms 12:25 - 12:30
H. Bansal (India)

Surgical treatment of drug-resistant epilepsies in Moscow 12:30 - 12:35
I. Trifonov (Russian Federation)

A wireless neuroprosthesis for epilepsy and BCI 12:35 - 12:40
P. Romanelli (Italy)

Methodology, outcome, safety and in vivo accuracy in traditional frame-based stereoelectroencephalography 12:40 - 12:45
L. Van der Loo (Netherlands)

Epilepsy surgery in children with Rolandic focal cortical dysplasia 12:45 - 12:50
A. Melikyan (Russian Federation)

Hippocampal GABA transporter distribution in patients with temporal lobe epilepsy and hippocampal sclerosis 12:50 - 12:55
O. Schijns (Netherlands)

Clinical assessment of the cerebral microcirculation and its glycocalyx in temporal lobe epilepsy 12:55 - 13:00
R. Haeren (Netherlands)

3D preoperative and intraoperative multimodal imaging in epilepsy patients 13:00 - 13:05
K. Minkin (Bulgaria)

Vascular Neurosurgery
11:20 - 13:05 Sala Zorzi

Video Session on Vascular Neurosurgery: Tricks and Tips

Chairs:
A. Gruber (Austria)
Y.-K. Tu (Taiwan)

Temporary clipping in aneurysm surgery 11:20 - 11:30
A. Dehdashti (United States)
### Scientific Programme

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>11:30 - 11:40</td>
<td>Direct surgery of giant aneurysm tricks and tips</td>
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<tr>
<td></td>
<td>R. Scienza (Italy)</td>
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<tr>
<td>11:40 - 11:50</td>
<td>Bypass in complex aneurysms</td>
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<td></td>
<td>A. Santoro (Italy)</td>
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<tr>
<td>11:50 - 12:00</td>
<td>Endoscopy assisted aneurysm surgery</td>
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<td>R. Galzio (Italy)</td>
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<tr>
<td>12:00 - 12:10</td>
<td>Surgical technique for neck clipping of internal carotid artery supraclinoid segment aneurysm - importance of complete exposure of the aneurysm</td>
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<td>T. Sugawara (Japan)</td>
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<tr>
<td>12:10 - 12:20</td>
<td>Endoscopic transnasal approach for a suprasellar retrochiasmatic cavernous hemangioma</td>
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<td>C. Zola (Italy)</td>
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<tr>
<td>12:20 - 12:30</td>
<td>Usefulness of a new intraoperative laser light imaging to simultaneously visualize visible light and near-infrared fluorescence for indocyanine green angiography</td>
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<tr>
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<td>T. Sato (Japan)</td>
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<tr>
<td>12:30 - 12:40</td>
<td>Tips, bases, and pitfalls in distal trans-sylvian key-hole approach for unruptured aneurysms</td>
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<td>R. Takeda (Japan)</td>
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<tr>
<td>12:40 - 12:50</td>
<td>Surgical management of medulla oblongata cavernoma</td>
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<td>K. Ganesh (India)</td>
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<tr>
<td>12:50 - 13:00</td>
<td>Unruptured intracranial aneurysms: tricks and tips from a hybrid surgeon</td>
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<td>A. Andreou (Greece)</td>
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### Neuro-oncology

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>11:20 - 12:20</td>
<td>Meet the Experts Seminar 7</td>
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#### Meet the Experts Seminar 7

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>11:20 - 11:40</td>
<td>Best approach for skull base meningiomas: The controversy continues</td>
</tr>
<tr>
<td></td>
<td>P. De Marinis (Italy)</td>
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<tr>
<td>11:40 - 12:00</td>
<td>Best approach for skull base meningiomas: The controversy continues</td>
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<tr>
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<td>H. Schroeder (Germany)</td>
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<tr>
<td>12:00 - 12:20</td>
<td>Best approach for skull base meningiomas: The controversy continues</td>
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<td>F. Zenga (Italy)</td>
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### Spinal Neurosurgery

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>11:20 - 12:20</td>
<td>Meet the Experts Seminar 8</td>
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</table>

#### Meet the Experts Seminar 8

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
</table>
Scientific Programme

**Spine surgery**
A. Demetriades (United Kingdom)  
11:20 - 11:40

**Spine surgery**
N. Francaviglia (Italy)  
11:40 - 12:00

**Spine surgery**
K. Rotim (Croatia)  
12:00 - 12:20

Vascular Neurosurgery  
11:20 - 12:20 Sala Bardot

**Meet the Experts Seminar 9**

**Dural AV fistulas**
M. Zuccarello (United States)  
11:20 - 11:40

**Dural AV fistulas**
F. Causin (Italy)  
11:40 - 12:00

**Dural AV fistulas**
L. Regli (Switzerland)  
12:00 - 12:20

Corporate Symposium  
13:25 - 14:25 Sala Casinò

**Industry-Sponsored Symposium**

Corporate Symposium  
13:25 - 14:25 Sala Volpi

**General**  
13:25 - 14:25 Sala Mangano

**Oral Presentations**

**Chairs:**
A. Schwarz (Italy)  
L. Volpin (Italy)  

**Fourth ventricle hemangioblastomas: Surgical serie**
D. Catapano (Italy)  
13:25 - 13:35

**Outcomes after surgical treatment of meningioma-associated proptosis**
M. Sorour (United Kingdom)  
13:35 - 13:45
## Scientific Programme

- **Ethical challenges in the introduction of novel medical devices in neurosurgery: oversight and regulation**  
  13:45 - 13:50  
  I.S. Muskens (United States)

- **Radiofrequency lesions and stimulation of anterior thalamic nucleus - two different options for treatment of intractable epilepsy**  
  13:50 - 13:55  
  A. Sitnikov (Russian Federation)

- **Gamma Knife radiosurgery for glomus jugular tumors. Results on 51-treated patients followed-up for at least 36 months**  
  13:55 - 14:00  
  M. Vitelli (Italy)

- **The diagnostic accuracy of detecting malignant transformation of low-grade glioma using O-(2-[18F]fluoroethyl)-L-tyrosine positron emission tomography - a retrospective study**  
  14:00 - 14:05  
  A. Bashir (Denmark)

- **Surgical strategies in the management of lateral ventricle tumors**  
  14:05 - 14:10  
  A. Fayed (Egypt)

- **Results of minimally invasive spinal decompression for multilevel lumbar spinal stenosis**  
  14:10 - 14:15  
  N. Montano (Italy)

- **Laminectomy and fusion for advanced and multilevel Cervical Stenotic Myelopathy (CSM)**  
  14:15 - 14:20  
  A.H. Bajamal (Indonesia)

- **Tarlov cysts: more than meets the eye**  
  14:20 - 14:25  
  R. Rasschaert (Belgium)

## Oral Presentations

### Neuro-oncology

- **The structure, function and inhibition of epidermal growth factor receptor in glioblastoma**  
  13:25 - 13:30  
  R. Mitchell (Australia)

- **Implementation of an infection prevention bundle to reduce surgical site infections following brain surgery**  
  13:30 - 13:35  
  N. Wimmer (Germany)

- **Olfactory nerve preservation in olfactory groove meningiomas (OGM). Is it a viable option?**  
  13:35 - 13:40  
  A.V. Ciurea (Romania)

- **The role of 5-ALA (Gliolan) induced fluorescence in brain tumors biopsy**  
  13:40 - 13:45  
  C. Dimitriu (France)
Scientific Programme

The impact of DTI fiber tracking of the corticospinal tract based on navigated transcranial magnetic stimulation on surgery of motor-eloquent brain lesions
G. Raffa (Italy) 13:45 - 13:50

Heat Shock Protein (HSP) levels in solid and liquid biopsies from patients with brain tumors before and after ablative surgery: a pilot study
F. Graziano (Italy) 13:50 - 13:55

Role of Dkk-3 and Claudin-5 in meningiomas as potential and innovative therapeutic targets
A. Germano (Italy) 13:55 - 14:00

Fluorescein-assisted awake stereotactic needle biopsy of contrast-enhancing brain tumors: safety, feasibility and review of the literature
G. di Nuzzo (Italy) 14:00 - 14:05

Fluorescein-guided surgery for high grade glioma resection: an intraoperative "contrast-enhancer"
G. di Nuzzo (Italy) 14:05 - 14:10

Glioma associated stem cells: a patient-based in vitro approach to identify novel LGG prognostic factors and suggest novel therapies
T. Ius (Italy) 14:10 - 14:15

The surgical management of primary cerebellopontine angle melanocytoma
S.D. Adib (Germany) 14:15 - 14:20

Subtemporal approach for gross total resection of retrochiasmatic craniopharyngiomas - our experience on 30 cases
Ł. Robak (Poland) 14:20 - 14:25

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

Chairs: J. Ohman (Finland) F. Servadei (Italy)

N. Stocchetti (Italy)
**New horizons in the management of neurotrauma**

P. Hutchinson (United Kingdom)

14:55 - 15:15

**The potential for serum biomarkers to address controversies surrounding management of intracranial pressure**

A. Valadka (United States)

15:15 - 15:35

**The often misinterpreted effects of the blood brain barrier on levels of blood biomarkers following TBI**

R. Hayes (United States)

15:35 - 15:55

**Advances in TBI Research: Evidence For Neocortical Circuit Disruption**

J.T. Povlishock (United States)

15:55 - 16:15

---

**Neuro-oncology**

16:55 - 18:40

**Neuro-oncology 5: Imaging Brain Cancer**

Sala Grande

**Chairs:**

A. Olivi (Italy)

J. Tonn (Germany)

**Ultrasound guided surgery**

F. DiMeco (Italy)

16:55 - 17:10

**Molecular Imaging (PET)**

J. Tonn (Germany)

17:10 - 17:25

**Fluorescence Guided Neurosurgery**

T. Kiris (Turkey)

17:25 - 17:40

**Integration of different imaging modalities**

A. Olivi (Italy)

17:40 - 17:55

**Brain connectivity and gliomas**

M. Corbetta (Italy)

17:55 - 18:10

**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**

S.A. Goryaynov (Russian Federation)

18:10 - 18:25

**Functional surgical approach of giant insular lower grade gliomas: impact on extent of resection and patient functional outcome**

M. Rossi (Italy)

18:25 - 18:32

**Is navigated ultrasound the most efficient intraoperative imaging technique?**

C. de Quintana-Schmidt (Spain)

18:32 - 18:39
## Scientific Programme

### Spinal Neurosurgery

16:55 - 18:40

**Spinal Neurosurgery 4**

**Chairs:**

B. Meyer (Germany)
K. Rotim (Croatia)

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker/Institution</th>
<th>Time</th>
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<tbody>
<tr>
<td>16:55</td>
<td>Treatment of intraspinal vascular lesions</td>
<td>B. Meyer (Germany)</td>
<td>16:55</td>
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<tr>
<td>17:10</td>
<td>Diagnostic capability and therapeutic efficacy of the new classification of lumbar degenerative microinstability</td>
<td>R. Delfini (Italy)</td>
<td>17:10</td>
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<tr>
<td>17:25</td>
<td>Surgery of sacral chordomas</td>
<td>P. Ruggieri (Italy)</td>
<td>17:25</td>
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<tr>
<td>17:40</td>
<td>Transdural approach to thoracic disk herniation</td>
<td>R. de Falco (Italy)</td>
<td>17:40</td>
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<tr>
<td>17:47</td>
<td>Treatment of chronic low back pain via ablation of the basivertebral nerve: results of a multicenter, randomized, double blinded, sham controlled trial (SMART Trial)</td>
<td>B. Meyer (Germany)</td>
<td>17:47</td>
</tr>
<tr>
<td>18:01</td>
<td>Interspinous vs new interlaminar device in the lumbar DDD</td>
<td>G. Guizzardi (Italy)</td>
<td>18:01</td>
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<tr>
<td>18:08</td>
<td>Interspinous process fixation in ALIF/LLIF: 2 year outcomes from a prospective randomized multi-center trial</td>
<td>R. DenHaese (United States)</td>
<td>18:08</td>
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<tr>
<td>18:08</td>
<td>Demineralized bone matrix (DBM) as a bone void filler in lumbar interbody fusion: a prospective pilot study of simultaneous DBM and autologous bone grafts</td>
<td>S.-H. Kim (Korea, Republic of)</td>
<td>18:08</td>
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<tr>
<td>18:15</td>
<td>Minimally invasive arthrodesis with TLIF (transforaminal lumbar interbody fusion) and cannulated screws in isthmic and degenerative spondylolisthesis. Our experience since 2004</td>
<td>L. Alvaro (Italy)</td>
<td>18:15</td>
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<tr>
<td>18:22</td>
<td>Achieving optimal outcome for lumbar spondylolisthesis: randomized controlled trial results and future directions</td>
<td>Z. Ghogawala (United States)</td>
<td>18:22</td>
</tr>
<tr>
<td>18:29</td>
<td>Spinal cord stimulation for treatment of neuropathic pain in failed back surgery syndrom: a ten years experience using percutaneous leads insertion</td>
<td>D. Morelli (Belgium)</td>
<td>18:29</td>
</tr>
</tbody>
</table>
Scientific Programme

Functional Neurosurgery & Radiosurgery
16:55 - 18:40 Sala Casinò


Chairs:
G. Broggi (Italy)
M. Lanotte (Italy)

Advances in functional neurosurgery
A. Lozano (Canada)
16:55 - 17:15

Robotic-assisted stereotactic neurosurgery for DBS and epilepsy
P. Kubben (Netherlands)
17:15 - 17:30

Identification of targets for functional neurosurgery using tractography and functional imaging
J. Barcia (Spain)
17:30 - 17:45

Directional DBS: a new standard?
F. Alesch (Austria)
17:45 - 18:00

Technological innovations in DBS: possible impact on clinical efficacy
A. Landi (Italy)
18:00 - 18:15

Directional leads: a technical option leading to a change of concept in deep brain stimulation?
C. Matthies (Germany)
18:15 - 18:22

Microvascular decompression vs gamma knife radiosurgery for trigeminal neuralgia: a meta-analysis
A. Boukas (United Kingdom)
18:22 - 18:29

Stereotactic radiosurgery for type 1 versus type 2 trigeminal neuralgias: a matched cohort study
C.-J. Chen (United States)
18:29 - 18:36

General
16:55 - 18:40 Sala Volpi

EANS AGM
not accredited

Neuro-oncology
16:55 - 18:40 Sala Pasinetti

Neuro-oncology 6: Cranio-vertebral Junction

Chairs:
M. Fornari (Italy)
M. Visocchi (Italy)
# Scientific Programme

**Occipito-cervical approaches**
M. Fornari (Italy)  
16:55 - 17:10

**Combined strategies for complex central skull base lesions**
S. Froelich (France)  
17:10 - 17:25

**Endoscopic approach to the clivus**
J. Ensenat (Spain)  
17:25 - 17:40

**Endoscopic endonasal approach for craniovertebral junction pathologies: myth and truth in clinical series and personal experience**
M. Visocchi (Italy)  
17:40 - 17:47

**Endonasal endoscopic odontoidectomy (EEO) to manage pathologies of the anterior craniocervical junction: analytical review of the cases recorded in 3 European neurosurgical centers**
S. Chibbaro (France)  
17:47 - 17:54

**Management of craniovertebral junction anomalies - experience of 253 cases**
S.K.N. Khan (Bangladesh)  
17:54 - 18:01

**Combined endoscopic endonasal odontoidectomy and posterior occipito-cervical fusion in a single-stage surgery for cranio-vertebral junction (CVJ) diseases**
F. Esposito (Italy)  
18:01 - 18:08

**Extended endoscopic endonasal approach for anterior cranio-vertebral junction lesions: lesson learned and technical nuances**
M. Iacoangeli (Italy)  
18:08 - 18:15

**Comparison of microscopic transoral vs endoscopic endonasal odontoectomy for fixed anterior compression of the cervico-medullary junction**
N. Paidakakos (Italy)  
18:15 - 18:22

**Reconstruction of skull base defects in endonasal endoscopic approaches**
B. Pashaev (Russian Federation)  
18:22 - 18:29

**Endoscopic transnasal transseptal approach with posterior nasal spine removal: a wide surgical corridor to the craniovertebral junction and odontoid. Technical note and case series**
Z. Rossini (Italy)  
18:29 - 18:36

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**Oral Presentations**

**Chairs:**
G.B. Costella (Italy)  
L. Tosatto (Italy)

**History Axel Perneczky and his MIN concept**
K. Resch (Austria)  
16:55 - 17:02

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Sala Mangano

16:55 - 18:40

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Scientific Programme

Endoscope-assisted microvascular decompression in hemifacial spasm
H. Schroeder (Germany) 17:02 - 17:09

Endoscopic bimanual and sharp dissection technique for total resection of colloid cysts
H. Schroeder (Germany) 17:09 - 17:14

Neurosurgeons' socioeconomic status across Europe
N. Alshafai (Canada) 17:14 - 17:19

Testing the efficacy of simulation in neurosurgical education: first results of the SENSE trial
A.N. Amr (United Kingdom) 17:19 - 17:24

Making fetish of neuroimaging and underestimation of clinical data: how to resolve a malicious controversy of modern neurosurgery
L. Likhterman (Russian Federation) 17:24 - 17:29

Spinal tumor surgery without neurophysiological monitoring in a developing country Nepal: an early experience
P. Shrestha (Nepal) 17:29 - 17:34

Possibilities of minimally invasive transorbital approaches and intraoperative neuronavigation in patients' surgical treatment with thyroid eye disease
A. Kalandari (Russian Federation) 17:34 - 17:39

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
A. Bernardo (United States) 17:39 - 17:44

Development of the pediatric cranial venous system and its clinical relevance: a comprehensive multicenter study
A. Bernardo (United States) 17:44 - 17:49

Anaesthesia for awake neurosurgery and application of therapeutic communication with hypnosis-our experiences
J. Markovic Bozic (Slovenia) 17:49 - 17:54

Endoscopic microvascular decompression with transposition technique for trigeminal neuralgia and hemifacial spasm
F. Komatsu (Japan) 17:54 - 17:59

Value based medicine - ethical issues in daily practice
A. Ammar (Saudi Arabia) 17:59 - 18:04

Evaluation of microsurgical performance under sleep deprivation with the NeuroTouch simulator
A. Micko (Austria) 18:04 - 18:09

Could distal spinal cord transection be a definite solution for tethered cord syndrome patients? A preliminary report of 5 patients
K.S. Han (Netherlands) 18:09 - 18:14

Isotelesis in neurosurgery: the convergence of human and machine factors in the operating room
S. Koga (United States) 18:14 - 18:19
Scientific Programme

Evaluating the impact of the World Federation of Neurosurgical Societies (WFNS) neurosurgical equipment donation programme on neurosurgical practice in low and middle income countries
S. Venturini (United Kingdom) 18:19 - 18:24

Anatomical and clinical significance of carotico-clinoid ligament from the perspective of endoscopic endonasal surgery
T. Nakai (Japan) 18:24 - 18:29

The gap between the neurosurgical OR and a virtual simulator: EVD as a paradigm
T.F. Galbiati (Italy) 18:29 - 18:34

Radiofrequency thermocoagulation rhizotomy for trigeminal neuralgia about 50 cases. Colmar's experience
Y. Canton Kessely (France) 18:34 - 18:39

Neurotrauma and Critical Care
16:55 - 18:40 Sala Martinelli

Oral Presentations

Risk of neurodegenerative disease after traumatic brain injury in working-aged persons: a Finnish nationwide study
R. Raj (Finland) 16:55 - 17:00

Temporal trends in cost-effectiveness and outcome of intensive care for traumatic brain injury
R. Raj (Finland) 17:00 - 17:05

Chondroitinase ABC for neurological recovery after acute brain injury: systematic review and meta-analyses of preclinical studies
C.H. Koh (United Kingdom) 17:05 - 17:10

Battling craniofacial injuries in cricket: a reality and need for reforms
M. Tripathi (India) 17:10 - 17:15

A systematic review of the usefulness of glial fibrillary acidic protein (GFAP) for predicting acute intracranial lesions following head trauma
T. Luoto (Finland) 17:15 - 17:20

Is there a place for invasive monitoring of the Intra-Cranial Pressure (ICP) in severe brain traumatisms in the infant under one year old? A review
A. Rolland (France) 17:20 - 17:25

Neurotrauma after jumping over the United States-Mexico border wall: demographics and cost analysis
W. Ramey (United States) 17:25 - 17:30
Feasibility of telemetric intracranial pressure monitoring in the neuro intensive care unit  
A. Lilja-Cyron (Denmark)

17:30 - 17:35

Traumatic brain injury—a leading cause of death in Pakistan. A prospective study  
A. Fatima (Pakistan)

17:35 - 17:40

Age comparative analysis of unilateral chronic SDH in terms of presenting features, etiology, radiology and prognosis after single burr hole craniostomy with irrigation and drainage  
M. Nagar (India)

17:40 - 17:45

Guideline of management of severe head injury in pregnancy  
A.A. Fauzi (Indonesia)

17:45 - 17:50

Prevalence of concomitant cranio-spinal injury: a systematic review  
M. Pendrich (United Kingdom)

17:50 - 17:55

Can we manage safely and efficiently chronic subdural hematomas at lower cost  
S. Bakhti (Algeria)

17:55 - 18:00

Risk factors for early reoperation of chronic subdural hematomas  
B.M. Kwinta (Poland)

18:00 - 18:05

Decompressive craniectomy: where should we stop?  
A. Di Rienzo (Italy)

18:05 - 18:10

Subdural hygroma with mass effect after several brain injury  
S. Zuev (Russian Federation)

18:10 - 18:15

Detection of mitochondrial dysfunction and cerebral ischaemia in severe traumatic brain injury: a microdialysis study  
R. Singla (India)

18:15 - 18:20

Passive leg raising in neurointensive care patients: a prospective trial  
M. Bauer (Austria)

18:20 - 18:25

‘What goes around, comes around...’ an assessment of referral patterns and the national compliance with NICE guidance for traumatic brain injury  
L. Shen (United Kingdom)

18:25 - 18:30

The role of anticoagulants and platelet inhibitors in the treatment of chronic subdural hematoma - a computer assisted volumetric 3D analysis  
A.M. Bohrer (Germany)

18:30 - 18:35

Surgical treatment of supra- and infratentorial traumatic epidural hematoma: our experience and literature review  
D. Nasi (Italy)

18:35 - 18:40
Scientific Programme

Vascular Neurosurgery
16:55 - 18:40 Sala Zorzi

Joint Session: EANS and ESC Stroke Council

Chairs:
M. Sames (Czech Republic)
P. Vajkoczy (Germany)

- Interventional treatment of acute ischemic stroke 16:55 - 17:10
  M. Mazighi (France)
- Neurosurgical treatment of hemorrhagic stroke 17:10 - 17:25
  A. Raabe (Switzerland)
- Cardiovascular complications after stroke 17:25 - 17:40
  W. Doehner (Germany)
- Acute cardiac complications after subarachnoid haemorrhage in the neuro ICU 17:40 - 17:55
  S. Amin-Hanjani (United States)
- Novel oral anticoagulants in stroke prevention 17:55 - 18:10
  P. Widimsky (Czech Republic)
- Vascular and cardiac changes after experimental SAH 18:10 - 18:25
  R. Xu (Germany)
- Atrial fibrillation and stroke 18:25 - 18:40
  P. Vardas (Greece)

Vascular Neurosurgery
16:55 - 17:55 Sala Beatty

Meet the Experts Seminar 10

- Brain AVM’s 16:55 - 17:15
  V. Beneš (Czech Republic)
- Brain AVM’s 17:15 - 17:35
  M. Cenzato (Italy)
- Brain AVM’s 17:35 - 17:55
  A. Gruber (Austria)

Spinal Neurosurgery
16:55 - 17:55 Sala Kubrick

Meet the Experts Seminar 11

- Cervical spine surgery 16:55 - 17:15
  D. Garbossa (Italy)
Scientific Programme

Cervical Kyphotic Deformity. Indications, Surgical Techniques and Results in a Consecutive Series of Cases
J. Duff (Switzerland)

17:15 - 17:35

Cervical spine surgery
V. Rohde (Germany)

17:35 - 17:55

Neuro-oncology
16:55 - 17:55

Sala Bardot

Meet the Experts Seminar 12

Fronto-orbital surgery
S. Fusetti (Italy)

16:55 - 17:15

Skull base
G. Iaconetta (Italy)

17:15 - 17:35

Neuroendoscopic approach to ventricular tumours
P.A. Oppido (Italy)

17:35 - 17:55
Scientific Programme

Wednesday, 04 October 2017

Functional Neurosurgery & Radiosurgery
09:00 - 10:40
Sala Grande

Plenary session: Functional Neurosurgery and Radiosurgery

Chairs:
B. Lippitz (Germany)
M. Scerrati (Italy)

- Controversies in functional neurosurgery and radiosurgery
  D. Sakas (Greece) 09:00 - 09:20

- New concepts in essential tremor
  J. Regis (France) 09:20 - 09:40

- Unmet needs and challenges of deep brain stimulation
  J. Krauss (Germany) 09:40 - 10:00

- Role of neurophysiology in microvascular decompression for trigeminal neuralgia
  J.O. Farah (United Kingdom) 10:00 - 10:20

- Recent developments in stereotactic neuro-radiosurgery: The impact on neurosurgery
  B. Lippitz (Germany) 10:20 - 10:40

ePoster Presentations
09:00 - 18:40

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:
L. Regli (Switzerland)
M. Zuccarello (United States)
### Scientific Programme

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker, Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:20 - 11:35</td>
<td>Revisiting ophthalmic aneurysm treatment - a modern take on endovascular vs. microsurgical management</td>
<td>B. Welch (United States)</td>
</tr>
<tr>
<td>11:35 - 11:50</td>
<td>Complication avoidance in aneurysm surgery</td>
<td>D. Barrow (United States)</td>
</tr>
<tr>
<td>11:50 - 12:05</td>
<td>Future developments of endovascular devices</td>
<td>J. de Vries (Netherlands)</td>
</tr>
<tr>
<td>12:05 - 12:20</td>
<td>Antifibrinolytics in rebleeding prevention after aneurysmal rupture - pros and cons</td>
<td>M. Germans (Switzerland)</td>
</tr>
<tr>
<td>12:20 - 12:35</td>
<td>Results PILOT study SELANA high flow bypass</td>
<td>A. van der Zwan (Netherlands)</td>
</tr>
<tr>
<td>12:35 - 12:45</td>
<td>Nimodipine microparticles to enhance recovery while reducing toxicity after subarachnoid hemorrhage</td>
<td>D. Hanggi (Germany)</td>
</tr>
<tr>
<td>12:45 - 12:55</td>
<td>Brainstem hemangioblastomas</td>
<td>G. Pavesi (Italy)</td>
</tr>
<tr>
<td>12:55 - 13:02</td>
<td>Efficacy of transcranial motor evoked potential monitoring during clipping of unruptured intracranial aneurysms</td>
<td>S. Ille (Germany)</td>
</tr>
</tbody>
</table>

### Neuro-oncology

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

**Chairs:**
K. Turel (India)  
W. Stummer (Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker, Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:20 - 11:35</td>
<td>Endoscopic endonasal surgery for craniopharyngiomas</td>
<td>L.M. Cavallo (Italy)</td>
</tr>
<tr>
<td>11:35 - 11:50</td>
<td>Endoscopic optic nerve decompression</td>
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<tr>
<td>11:50 - 12:05</td>
<td>The role of Endoscopic approaches for anterior skull base tumors: Current indications, limitations and results.</td>
<td>F. Gentili (Canada)</td>
</tr>
<tr>
<td>12:05 - 12:20</td>
<td>Treatment of central skull base tumours</td>
<td>P. Mortini (Italy)</td>
</tr>
<tr>
<td>12:20 - 12:35</td>
<td>Transorbital and combined approaches to orbital region: Target and corridor</td>
<td>P. Castelnuovo (Italy)</td>
</tr>
<tr>
<td>12:35 - 12:50</td>
<td>Contemporary surgical approaches to skull base malignancies</td>
<td>G. Gallia (United States)</td>
</tr>
</tbody>
</table>
### Scientific Programme

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>12:50 - 12:57</td>
<td>Differential diagnosis and surgical results in vascular malformations within the craniocervical junction</td>
<td>R. Firsching (Germany)</td>
</tr>
<tr>
<td>12:57 - 13:04</td>
<td>Endoscopic transsphenoidal approach to clivus chordomas and chondrosarcomas</td>
<td>I. Anik (Turkey)</td>
</tr>
</tbody>
</table>

#### Neurotrauma and Critical Care

11:20 - 13:05

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

**Chairs:**
- P. May (United Kingdom)
- A. Merenda (United States)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>11:20 - 11:35</td>
<td>Irrigation fluid at body temperature versus irrigation fluid at room temperature in the evacuation of chronic subdural hematoma</td>
<td>M. Tisell (Sweden)</td>
</tr>
<tr>
<td>11:35 - 11:50</td>
<td>Post-traumatic ventriculomegaly and decompressive craniectomy</td>
<td>K. Fountas (Greece)</td>
</tr>
<tr>
<td>11:50 - 12:05</td>
<td>The 'trouble' with cranioplasty: why, when, how?</td>
<td>J. Posti (Finland)</td>
</tr>
<tr>
<td>12:05 - 12:20</td>
<td>Management of &quot;moderate&quot; TBI</td>
<td>A. Belli (United Kingdom)</td>
</tr>
<tr>
<td>12:20 - 12:27</td>
<td>The role of corticosteroids in the treatment of chronic subdural hematomas: trial protocol to advance on an ongoing debate</td>
<td>D. Holl (Netherlands)</td>
</tr>
<tr>
<td>12:27 - 12:34</td>
<td>Update on compliance program for American association of neurological surgeons and congress of neurosurgeons endorsed guidelines for management of acute cranial trauma</td>
<td>T. Ryken (United States)</td>
</tr>
<tr>
<td>12:34 - 12:41</td>
<td>Impact of ICP lowering therapies and metabolic support in outcome improvement in severe pediatric TBI: a single centre prospective study of 75 cases</td>
<td>D. Gupta (India)</td>
</tr>
<tr>
<td>12:41 - 12:48</td>
<td>Quantitative CT in outcome prediction in TBI</td>
<td>A. Lagares (Spain)</td>
</tr>
<tr>
<td>12:48 - 12:55</td>
<td>Trauma-induced coagulopathy is associated with higher mortality than antithrombotic-medication-associated coagulopathy in traumatic brain injury</td>
<td>K.H. Sitoci-Ficici (Germany)</td>
</tr>
<tr>
<td>12:55 - 13:02</td>
<td>Brain contusions, personal perspective of Italian neurosurgeon: Italian Society of Neurosurgery Survey</td>
<td>C. Iaccarino (Italy)</td>
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Scientific Programme

Spinal Neurosurgery
11:20 - 13:05

Joint Session: AOSpine and EANS

Chairs:
G. Barbagallo (Italy)
B. Meyer (Germany)

- Spinal metastasis: From diagnosis to interventional treatments
  A. Zerbi (Italy) 11:20 - 11:30
- From open to minimally invasive surgery
  A. Ducati (Italy) 11:30 - 11:40
- Role of robotic surgery in the management of spinal metastases
  V. Rohde (Germany) 11:40 - 11:50
- Evolution of surgical strategies for a better collaboration with radiotherapy
  S. Boriani (Italy) 11:50 - 12:00
- The role of the radiation oncologist
  S. Combs (Germany) 12:00 - 12:10
- AO Spine discussion 12:10 - 12:20

- Management of deep infection after instrumentation on spine surgery: risk factors and therapy
  M. Dobran (Italy) 12:20 - 12:27
- Low-grade infection in spinal instrumentation: Is this the real cause of screw loosening?
  M. Issa (Germany) 12:27 - 12:34
- Importance of restoration of segmental lordosis in interbody fusions: analysis of a series of 346 cases with focus on the negative results
  G. Del Moro (Italy) 12:34 - 12:41
- Comparison of infection control after instrumentation for pyogenic spondylodiscitis of the thoracolumbar spine with and without discectomy
  E. Shiban (Germany) 12:41 - 12:48
- Surgical treatment of intramedullary spinal cord ependymomas in the neuromonitoring era: results on 100 patients
  F. Sala (Italy) 12:48 - 12:55
- Transforaminal endoscopic discectomy for thoracic disc herniation
  R. Saftic (Croatia) 12:55 - 13:02

Functional Neurosurgery & Radiosurgery
11:20 - 13:05

Functional Neurosurgery and Radiosurgery 3: Epilepsy Surgery

Chairs:
V. Esposito (Italy)
C. Matthies (Germany)
## Scientific Programme

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

### Vascular Neurosurgery

**Sala Mangano**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:20 - 13:05</td>
<td><strong>Cerebrovascular surgery utilizing high-resolution intraoperative imaging system (dual-image videoangiography, DIVA)</strong></td>
<td>Y. Yamada (Japan)</td>
<td>Sala Mangano</td>
</tr>
<tr>
<td>11:30 - 11:35</td>
<td><strong>Infarct volume predicts outcome in malignant hemispheric stroke</strong></td>
<td>N. Hecht (Germany)</td>
<td></td>
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<tr>
<td>11:35 - 11:40</td>
<td><strong>Management and outcome of patients with intraoperative rupture of intracranial aneurysms</strong></td>
<td>G. Sharma (Nepal)</td>
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<tr>
<td>11:40 - 11:45</td>
<td><strong>Internal maxillary bypass for complex pediatric aneurysms</strong></td>
<td>L. Wang (China)</td>
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<tr>
<td>11:45 - 11:50</td>
<td><strong>Internal maxillary artery bypass with radial artery graft treatment of giant intracranial aneurysms</strong></td>
<td>L. Wang (China)</td>
<td></td>
</tr>
<tr>
<td>11:50 - 11:55</td>
<td><strong>Virtual cerebral aneurysm clipping with real-time haptic force feedback in neurosurgical education</strong></td>
<td>M. Gmeiner (Austria)</td>
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</table>
EANS2017
CONTROVERSIES AND SOLUTIONS IN NEUROSURGERY
Venice October 1-5, 2017

Scientific Programme

Combined endovascular and microsurgical treatment for cerebral dural arteriovenous fistulas in the hybrid operating room
B. Grüter (Switzerland)

Magnetoencephalography investigation of memory deficits after aneurysmal subarachnoid hemorrhage
L. da Costa (Canada)

Initial treatment strategy for intracranial mycotic aneurysms: literature review
M. Ohtake (Japan)

Systemic HMGB1, a novel predictive biomarker for cerebral vasospasm in patients with aneurysmal subarachnoid hemorrhage
S. Muhammad (Germany)

Initial treatment strategy for intracranial mycotic aneurysms: literature review
M. Ohtake (Japan)

Risk factors for unruptured intracranial aneurysms and aneurysmal subarachnoid hemorrhage in a prospective population study: The HUNT Study in Norway
T.B. Müller (Norway)

De novo aneurysm formation in patients with and without a history of intracranial aneurysm
M. Sato (Japan)

Management strategy and treatment outcomes of unruptured intracranial aneurysms - implications from the UCAS Japan cohort
A. Morita (Japan)

Weekend effect on aneurysmal subarachnoid hemorrhage: have services improved?
C.N. Lou (United Kingdom)

Risk factors and a new grading scale for predicting unfavorable outcomes in patients with massive basal subarachnoid hemorrhage
T. Shatokhin (Russian Federation)

High leisure time physical activity decreases risk for subarachnoid hemorrhage
I. Rautalin (Finland)

Intracranial aneurysms in patients with autosomal dominant polycystic kidney disease: prevalence, risk of rupture and management, a systematic review
F. Cagnazzo (Italy)

Surveillance imaging of the cerebral cavernoma and outcomes: a retrospective, observational study
D. Holmes (United Kingdom)

Selection of bypass type for cerebral blood flow augmentation
V. Lukshin (Russian Federation)

classification of vertebral artery loop formation and association with cervicogenic dizziness
M.E. Üstündağ (Turkey)
Scientific Programme

General
11:20 - 13:05

Sala Martinelli

Hydrocephalus and CSF Dynamics

Chairs:
U. Godano (Italy)
G. Pinna (Italy)

Prospective randomized study concept for adult post-traumatic hydrocephalus management: a call to action
N. Alshafai (Canada) 11:20 - 11:27

ETV-Registry: concept, structure and results
M. Fritsch (Germany) 11:27 - 11:34

Comparison of pituitary function in post operative patients of normal pressure hydrocephalus
A. Athar (Pakistan) 11:34 - 11:41

Telemetric monitoring of Intracranial pressure
S. Banos (Greece) 11:41 - 11:48

Ultrasound of the optic nerve sheath diameter before and after microsurgical closure of a dural CSF-fistula as discriminator in spontaneous intracranial hypotension
J. Fichtner (Germany) 11:48 - 11:55

A 10 year prospective follow-up of subjective symptoms lends little support to surgical treatment of intracranial arachnoid cysts
K. Rabiei (Sweden) 11:55 - 12:02

Lumbar infusion test to guide decision-making in the surgical treatment of idiopathic intracranial hypertension
L. Van der Loo (Netherlands) 12:02 - 12:09

Mechanisms of urinary incontinence in normal pressure hydrocephalus
P. Mantovani (Italy) 12:09 - 12:16

Risk factors for shunt-dependency after craniotomies for intracranial tumors in adult patients
S.A.M. Hosainey (Norway) 12:16 - 12:23

Family in idiopathic normal pressure hydrocephalus (iNPH) - does it matter?
V. Leinonen (Finland) 12:23 - 12:30

Microsurgical third ventriculostomy: a new tool in neurosurgical toolbox?
A. Sanikidze (Russian Federation) 12:37 - 12:44

Brain tissue Aβ42 is linked to the shunt response in idiopathic normal pressure hydrocephalus
S. Abu Hamdeh (Sweden) 12:44 - 12:51

Benign intracranial hypertension (diagnosis and treatment)
A. Huk (Ukraine) 12:51 - 12:58

Radiological changes in the asymptomatic era of iNPH
D. Engel (Germany) 12:58 - 13:05
Scientific Programme

Neurotrauma and Critical Care
11:20 - 13:05 Sala Zorzi

Neurotrauma and Critical Care 3: Advances in Mild TBI

Chairs:
R. Hayes (United States)
G. Zona (Italy)

Outcome Prediction in Mild TBI
T. Luoto (Finland) 11:20 - 11:35

Sport-related concussion: developing Common Data Elements
S. Signoretti (Italy) 11:35 - 11:50

Neuropsychological disorders after mild TBI
C. Semenza (Italy) 11:50 - 12:05

Neuropsychological deficits in children with pediatric traumatic brain injury
N. Syrmos (Greece) 12:05 - 12:12

Post-traumatic pneumocephalus treated with two different techniques
A. Pompucci (Italy) 12:12 - 12:19

Head injury in infants in Germany
A. Pala (Germany) 12:19 - 12:26

Practice patterns and outcomes in the management of isolated traumatic subarachnoid hemorrhage - a North American perspective
C. Witiw (Canada) 12:26 - 12:33

GFAP and UCH-L1 as predictors of outcome in mild and moderate traumatic brain injury
M.I. Hossain (Finland) 12:33 - 12:40

Serum metabolites detect patients with traumatic intracranial findings on computed tomography after traumatic brain injury
J. Posti (Finland) 12:40 - 12:47

Treatment of chronic subdural haematoma - cross-sectional study of clinical standards in Austrian, German and Swiss neurosurgical units
D. Baschera (Switzerland) 12:47 - 12:54

Post-traumatic hydrocephalus: comparison of endoscopic third ventriculostomy and ventriculo-peritoneal shunt
V. Tandon (India) 12:54 - 13:01

Neuro-oncology
11:20 - 12:20 Sala Beatty

Meet the Experts Seminar 13

Neuro-oncology
E. Knosp (Austria) 11:20 - 11:40
Scientific Programme

**Neuro-oncology: along the midline of the anterior cranial fossa: When, how and why a trans-sinusal frontal approach can be a good option?**  
11:40 - 12:00  
R. Stefini (Italy)

**Neuro-oncology**  
12:00 - 12:20  
A. Antunes (Brazil)

Vascular Neurosurgery  
11:20 - 12:20  
Sala Kubrick

**Meet the Experts Seminar 14**

**Surgical Treatment of Giant Aneurysms**  
11:20 - 11:40  
R. Galzio (Italy)

**Recent Perspective of Bypass Surgery for Moyamoya Disease**  
11:40 - 12:00  
S. Kuroda (Japan)

**Vascular diseases**  
12:00 - 12:20  
K. Takizawa (Japan)

Neuro-oncology  
11:20 - 12:20  
Sala Bardot

**Meet the Experts Seminar 15**

**Skull base endoscopy/microsurgery**  
11:20 - 11:40  
S. Froelich (France)

**Skull base endoscopy/microsurgery**  
11:40 - 12:00  
D. Locatelli (Italy)

**What is the safe extent of craniopharyngioma resection**  
12:00 - 12:20  
J. Steno (Slovakia)

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

Chairs:
F. Esposito (Italy)
P. Gaetani (Italy)

- **Occipital neuralgia: Considerations on a series of 107 cases**
  F. Esposito (Italy)
  13:25 - 13:30

- **Study of the outcome of surgical versus nonsurgical treatment for the treatment of unstable traumatic lesions of the lower cervical spine**
  A. Matter (Egypt)
  13:30 - 13:35

- **Improving patients' confidence and satisfaction in spinal surgery: development of a question prompt list for informed consent in a prospective setting**
  M. Renovanz (Germany)
  13:35 - 13:40

- **Diffusion tensor MR imaging is a biomarker for physical function in cervical spondylotic myelopathy**
  M. Wang (United States)
  13:40 - 13:45

- **Oblique Lateral Lumbar Interbody Fusion (OLLIF): a comparative study of perioperative and clinical outcomes**
  H. Abbasi (United States)
  13:45 - 13:50

- **Stand alone 4 levels cervical fusion with Peek cage: long term clinical and radiological outcomes**
  W. Abouzeid (Egypt)
  13:50 - 13:55

- **Outcome of pre and post craniotomy evacuation S100-beta levels of spontaneous intracerebral hemorrhage**
  D. Atman (Indonesia)
  13:55 - 14:00

- **Predictors of intracranial hemorrhage in adult patients on extracorporeal membrane oxygenation: an observational cohort study**
  A. Fletcher Sandersjöö (Sweden)
  14:00 - 14:05

- **BOLD MRI cerebrovascular reactivity as a surrogate imaging marker for hemodynamic failure**
  J. Fierstra (Switzerland)
  14:05 - 14:10

- **General anesthesia versus local anesthesia during carotid endarterectomy - our experience**
  J. Mracek (Czech Republic)
  14:10 - 14:15

- **Treatment of spontaneous subarachnoid hemorrhage and neuropsychological performance at 6 months - preliminary results of a prospective clinical trial**
  E. Bründl (Germany)
  14:15 - 14:20

- **Extracranial-intracranial bypass during acute ischemic stroke doesn’t increase 30-day rate of complications (any stroke or death): prospective study**
  P. Chechulov (Russian Federation)
  14:20 - 14:25
Scientific Programme

Neuro-oncology
13:25 - 14:25 Sala Martinelli

Oral Presentations

Chairs: C. Anile (Italy) S. Paolini (Italy)

Assessing brain tumor regrowth in relation to motor areas by navigated TMS and functional MRI
N. Sollmann (Germany) 13:25 - 13:30

The cortical distribution of first and second language in the right hemisphere of bilinguals: a repetitive navigated transcranial magnetic stimulation approach
N. Sollmann (Germany) 13:30 - 13:35

Cell-based therapy using miR-302-367 expressing cells represses glioblastoma development
F. Almairac (France) 13:35 - 13:40

Carmustine wafers in newly diagnosed high grade gliomas: institutional experience and systematic literature review
T. Ius (Italy) 13:40 - 13:45

Surgical treatment of petroclival meningiomas
L. Poulsgaard (Denmark) 13:45 - 13:50

The influence of preoperative dependency on mortality, functional recovery and complications after resection of brain tumors
Y. Zhang (Switzerland) 13:50 - 13:55

Is the risk of re-do tumor craniotomies increased? Data from a prospective registry of complications and outcome
D. Seggewiss (Switzerland) 13:55 - 14:00

Molecular biomarkers in low-grade glioma: retrospective monoinstitutional study
D. Cesselli (Italy) 14:00 - 14:05

Maximal safe resection followed by balloon electronic brachytherapy for recurrent glioblastomas and brain metastases
A. Gaytan (Russian Federation) 14:05 - 14:10

Large intradural tympano-jugular paragangliomas. Strategy of treatment
D. Cazzador (Italy) 14:10 - 14:15

New technologies available for the surgical treatment of vestibular schwannomas
L. Mastronardi (Italy) 14:15 - 14:20

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. Gangemi (Italy)
M. Juhler (Denmark)

**Posterior fossa high-grade tumors**
N. Akalan (Turkey)
14:35 - 14:55

**Spinal Disraphysms: integrated roadmap for management**
A. Cama (Italy)
14:55 - 15:15

**Endoscopy for intraventricular tumors**
M. Gangemi (Italy)
15:15 - 15:35

**Cerebellar mutism**
M. Juhler (Denmark)
15:35 - 15:55

**Medulloblastomas**
G. Perilongo (Italy)
15:55 - 16:15

Spinal Neurosurgery
16:55 - 18:40  Sala Grande

Spinal Neurosurgery 5

Chairs:
K. Kalangu (Zimbabwe)
E. Sganzerla (Italy)

**Intramedullary tumors**
G. Pinna (Italy)
16:55 - 17:10

**Minimally invasive cervical surgery**
A. Raco (Italy)
17:10 - 17:25

**Neurophysiological monitoring and spine surgery: Trics of the trade**
A. Ducati (Italy)
17:25 - 17:40

**Revision rate of misplaced pedicle screws of the thoracolumbar spine - comparison of 3D fluoroscopy navigated vs. freehand placement**
J. Fichtner (Germany)
17:40 - 17:47

**Lumbar microdiscectomy for sciatica in adolescents: a multicentre observational registry-based study**
M.A. Madsbu (Norway)
17:47 - 17:54

**A new score predicting clinical outcome following lumbar spine surgery for degenerative disc disease**
A. Kellersmann (Germany)
17:54 - 18:01

**Economic performance of oblique lateral lumbar interbody fusion (OLLIF) with a focus on hospital throughput efficiency**
H. Abbasi (United States)
18:01 - 18:08
Scientific Programme

Treatment of syringomyelia associated with adhesive arachnoiditis 18:08 - 18:15
A. Zuev (Russian Federation)

A national pathway for the management of low back pain and radicular pain in Belgium 18:15 - 18:22
B. Depreitere (Belgium)

The mini-open lateral approach for corpectomy of the thoraco-lumbar spine. Results and outcome 18:22 - 18:29
M. Balsano (Italy)

Minimally invasive resection of ventral and ventrolateral intradural extramedullary spinal lesions. Clinical outcomes and the addition of image merge technique 18:29 - 18:36
R. Maduri (Switzerland)

Vascular Neurosurgery
16:55 - 18:40 Sala Perla

Vascular Neurosurgery 5: Incidental Aneurysms - Should We Treat the Images or the Patient?

Chairs:
A. Della Puppa (Italy)
A. Gruber (Austria)

A hypothesis about the birth, life and death of intracranial aneurysms 16:55 - 17:10
A. Raabe (Switzerland)

Predictors of future rupture of unruptured aneurysms: aneurysm related factors 17:10 - 17:25
A. Morita (Japan)

True risk factors and incidence of aneurysmal SAH 17:25 - 17:40
M. Korja (Finland)

Follow up strategies in unruptured untreated aneurysms 17:40 - 17:55
F. Proust (France)

Current treatment strategies of giant intracranial aneurysms in Europe - results from the Giant Intracranial Aneurysm Registry 17:55 - 18:10
J. Dengler (Germany)

Radiological biomarkers for unruptured but rupture-prone intracranial aneurysms 18:10 - 18:25
J. Frosen (Finland)

Predictors of in-hospital death following aneurysmal subarachnoid hemorrhage - analysis of a nationwide database (Swiss SOS) 18:25 - 18:32
M.N. Stienen (Switzerland)

B. Rezai Jahromi (Finland)
Scientific Programme

High Risk Surgery

Chairs:
E. Kasper (United States)
M. Munari (Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 16:55 - 17:10| **Introductory remarks**
|              | E. Kasper (United States)                    |
| 17:10 - 17:25| **Spine Surgery in morbidly obese patients >400lbs**
|              | Z. Ghogawala (United States)                 |
| 17:25 - 17:40| **Elective surgery in pts >65 years; what is the evidence?**
|              | I. Germano (United States)                   |
| 17:40 - 17:55| **Neurosurgery in Pregnancy**
|              | Y. Laviv (Israel)                            |
| 17:55 - 18:10| **Pediatric Neurosurgery**
|              | T. Tierney (United States)                   |
| 18:10 - 18:25| **Multimorbid patients and Critical Care Neurosurgery**
|              | A. Merenda (United States)                   |
| 18:25 - 18:40| **Aggressive pituitary tumors**
|              | F.F. Angileri (Italy)                        |

Pituitary and Around

Chairs:
P. Cappabianca (Italy)
C. Scaroni (Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 16:55 - 17:10| **Will we ever reach 100% cure of hormone-active pituitary tumors?**
|              | A. Grotenhuis (Netherlands)                                  |
| 17:10 - 17:25| **Avoiding complications in pituitary surgery**
|              | E. Laws (United States)                                     |
| 17:25 - 17:40| **Volumetric assessment of extent of resection**
|              | L. Regli (Switzerland)                                      |
| 17:40 - 17:55| **Suprasellar meningiomas. The nuances of the surgical techniques and the outcome.**
|              | J. Steno (Slovakia)                                         |
| 17:55 - 18:10| **Parasellar meningiomas**
|              | W. Couldwell (United States)                                |
| 18:10 - 18:25| **Factors influencing Visual Outcome in Tuberculum Sellae Meningiomas**
|              | E. Knosp (Austria)                                          |
Scientific Programme

Features of surgical treatment of patients with Cushing’s disease
A. Grigoriev (Russian Federation)
18:25 - 18:32

The role of expanded endoscopic endonasal approach in the management of fibrous pituitary macroadenomas
M. Cappelletti (Italy)
18:32 - 18:39

Pediatric Neurosurgery
16:55 - 18:40
Sala Pasinetti

Pediatric Neurosurgery 3: Low-grade Tumors

Chairs:
N. Akalan (Turkey)
F. Giangaspero (Italy)

How molecular biology has influenced our understanding of pediatric low grade gliomas.
F. Giangaspero (Italy)
16:55 - 17:10

Surgical Strategies in the management of Thalamic tumors in children
G. Cinalli (Italy)
17:10 - 17:25

The development and impact of intraoperative MRI on neurosurgical practice in the UK in both adult and paediatric patients
P. May (United Kingdom)
17:25 - 17:40

Lessons learned in the management of childhood ependymoma
N. El Abbadi (Morocco)
17:40 - 17:47

Safety of concomitant use of intraoperative monitoring with intraoperative magnetic resonance in children
S. Dias (Switzerland)
17:47 - 17:54

Recurrent ependymomas of the posterior fossa
M. Smrčka (Czech Republic)
17:54 - 18:01

The experience of surgical treatment of structural pharmacoresistant forms of epilepsy
M. Zemlyansky (Russian Federation)
18:01 - 18:08

Surgical treatment in pediatric patients suffering drug resistant epilepsy
M. Talabaev (Belarus)
18:08 - 18:15

Clinical and experimental use of advanced magnetic resonance imaging for pediatric patients with moyamoya disease
T. Nariai (Japan)
18:15 - 18:22

Perspective of Bypass surgery for Moyamoya disease
S. Kuroda (Japan)
18:22 - 18:40
Neuro-oncology
16:55 - 18:40

**Neuro-oncology 10**

**Chairs:**
L. Casentini (Italy)
G. Gallia (United States)
T. Kiris (Turkey)

- **Awake surgery for gliomas within the right inferior parietal lobule: new insights into the functional connectivity gained from stimulation mapping and surgical implications**
  A. Rolland (France)

- **Ultrasonography monitoring during neurosurgical operation using Superb Microvascular Imaging technique**
  M. Ishikawa (Japan)

- **Intraoperative magnetic resonance spectroscopy evaluates proliferative activity during glioma surgery**
  M. Kohta (Japan)

- **Optimizing the extent of resection and minimizing the morbidity in insular high-grade glioma surgery by high-field intraoperative MRI guidance**
  X. Ma (China)

- **Integration of white matter tractography into neuronavigation system in a consecutive surgical glioma series: useful, economic, operator-dependent**
  A. D’Elia (Italy)

- **Predictors of cognitive outcome after surgery for brain tumors**
  S. De Pellegrin (Italy)

- **Non-invasive mapping of categorization function by navigated transcranial magnetic stimulation**
  S. Maurer (Germany)

- **Elastic fusion enables fusion of intraoperative MRI data with preoperative neuronavigation data**
  C. Negwer (Germany)

- **The impact of intraoperative MRI examination on extent of resection in glioma surgery**
  F. Kramar (Czech Republic)

- **The Oxford experience in spheno-orbital meningiomas: a 11 year series**
  O. Al Awar (United Kingdom)

- **Advanced navigation guidance improves extent of resection of sphenoorbital meningiomas**
  G. Minchev (Austria)

- **Potential risk factors for seizures in meningioma patients and influence of anti-epileptic treatment**
  P. Baumgarten (Germany)
## Scientific Programme

### Keep Gamma Knife radiosurgery in neurosurgery
E. Motti (Italy)  
18:19 - 18:26

### Gamma Knife radiosurgery in acoustic neuroma - the Vienna series
J.M. Frischer (Austria)  
18:26 - 18:33

### Preserving the superior petrosal vein in meningioma surgery: clinical importance and depiction of the vein complex by 3D-CE-MR-angiography for preoperative planning
F. Ebner (Germany)  
18:33 - 18:40

### Spinal Neurosurgery
16:55 - 18:40

### Spinal Neurosurgery 6

**Chairs:**  
S. Cardali (Italy)  
A. Melatini (Italy)

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<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Time</th>
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<tbody>
<tr>
<td>16:55</td>
<td>Cervical disc replacement with DCItm (Dymanic Cervical Implant) in operative treatment of cervical degenerative disc disease (CDDD) and traumatic cervical disc herniation (TCDH)</td>
<td>16:55 - 17:02</td>
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<td></td>
<td>D. Haritonov (United Arab Emirates)</td>
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<tr>
<td>17:02</td>
<td>Minimally invasive approaches in calcified thoracic disc herniations: our experience from '97</td>
<td>17:02 - 17:09</td>
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<td>P. Cervellini (Italy)</td>
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<tr>
<td>17:09</td>
<td>Outcomes of oblique lateral interbody fusion for degenerative lumbar disease in patients under or over 65 years of age</td>
<td>17:09 - 17:16</td>
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<td></td>
<td>J.-S. Kim (Korea, Republic of)</td>
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<tr>
<td>17:16</td>
<td>Complications associated with spinal endoscopic surgery - correlations with the learning curve</td>
<td>17:16 - 17:23</td>
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<td>Y. Nishimura (Japan)</td>
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<tr>
<td>17:23</td>
<td>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</td>
<td>17:23 - 17:30</td>
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<td>I.C. Marques Neto (Brazil)</td>
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<td>17:30</td>
<td>Insights into the past and future of atlantoaxial stabilization techniques</td>
<td>17:30 - 17:37</td>
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<td>N. Alshafai (Canada)</td>
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<td>17:37</td>
<td>Correlation of Matrix Metalloproteinase (MMP)-1, -2, -3, and -9 expressions with demographic and radiological features in primary lumbar intervertebral disc disease</td>
<td>17:37 - 17:44</td>
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<td>E. Balkuv (Turkey)</td>
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<td>17:44</td>
<td>C5 nerve root palsy following decompression of cervical spine with anterior versus posterior procedures in patients with cervical myelopathy</td>
<td>17:44 - 17:51</td>
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<td>E. Balkuv (Turkey)</td>
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### Scientific Programme

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<th>Time</th>
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<tbody>
<tr>
<td>17:51 - 17:58</td>
<td>Evaluation of correction of radiological parameters (angulation,</td>
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<td>displacement) and accuracy of C2 pedicle screw placement in unstable</td>
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<td>hangman’s fracture with intraoperative C T based navigation</td>
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<td>P. Singh (India)</td>
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<td>17:58 - 18:05</td>
<td>Outcome of neural tube defect surgery in an Ethiopian hospital</td>
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<td>A. Aklilu (Ethiopia)</td>
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<tr>
<td>18:05 - 18:12</td>
<td>Cervical myelopathy and the use of Stand-Alone cervical cages with</td>
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<td>Integrated Screw Fixation: results in 355 consecutive operated levels</td>
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<td>H. El-Maghraby (United Kingdom)</td>
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<td>18:12 - 18:19</td>
<td>Re-operation rates and risk factors at a minimum of 4-Year Follow Up</td>
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<td>after dynamic lumbar stabilization using a semirigid system</td>
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<td>A. Rienmueller (Germany)</td>
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<tr>
<td>18:19 - 18:26</td>
<td>Bilateral spinal decompression by extended unilateral mini-open TLIF in</td>
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<td>degenerative spondilolystesis with central lumbar canal stenosis.</td>
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<td>Description of the surgical technique</td>
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<td>G. Barbagallo (Italy)</td>
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<tr>
<td>18:26 - 18:33</td>
<td>Proatlas segmentation anomalies: clinical presentation, radiological</td>
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<td>features &amp; surgical management</td>
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<td>N. Muthukumar (India)</td>
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<td>18:33 - 18:40</td>
<td>CT angiography in developmental cvj anomalies: adding a new dimension</td>
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<td>to management</td>
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<td>S. Singh (India)</td>
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### Video Session

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<th>Time</th>
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<tr>
<td>16:55 - 17:05</td>
<td>Vascular injury in meningioma surgery: pitfalls and recovery</td>
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<tr>
<td></td>
<td>H. Kasuya (Japan)</td>
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<td>17:05 - 17:15</td>
<td>Unilateral Basal interhemispheric approach through the sphenoid sinus</td>
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<td>to retrochiasmatic and intrasellar craniopharyngiomas</td>
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<td>T. Matsuo (Japan)</td>
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<tr>
<td>17:15 - 17:25</td>
<td>Lateral orbite-tomy for management of orbital tumors</td>
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<td>P. Shetty (India)</td>
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<td>17:25 - 17:35</td>
<td>Extended orbital exenteration for sinonasal malignancy with orbital apex</td>
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<td>extension - surgical technique and long term outcomes</td>
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<td>T. Sugawara (Japan)</td>
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<tr>
<td>17:35 - 17:45</td>
<td>Innovations in cerebral AVM surgery in current multimodal treatment</td>
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<td>/ARUBA aftermath era</td>
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<td></td>
<td>H. Kurita (Japan)</td>
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Scientific Programme

**Brainbook: neurosurgery for all**
17:45 - 17:55
P. Rogers (United Kingdom)

**Giant mucocelle one time surgery versus multiple surgeries**
17:55 - 18:05
A. Iordache (Romania)

**The endosopic endonasal “micro” surgery for deep intradural pathology**
18:05 - 18:15
M. Taniguchi (Japan)

**Endoscopic transorbital approach for a spheno-orbital meningioma**
18:15 - 18:25
C. Zoia (Italy)

**Aneurismal bone cyst of the lateral mass of C1. A good reconstruction with iliac crest graft: a case report**
18:25 - 18:35
A.J. Palpan Flores (Spain)

**Vascular Neurosurgery**
16:55 - 17:55
Sala Beatty

**Meet the Experts Seminar 16**

**Cerebrovascular diseases**
16:55 - 17:15
C. Bortolotti (Italy)

**Cerebrovascular diseases**
17:15 - 17:35
P. Ferroli (Italy)

**Cerebrovascular diseases**
17:35 - 17:55
M. Zuccarello (United States)

**Functional Neurosurgery & Radiosurgery**
16:55 - 17:55
Sala Kubrick

**Meet the Experts Seminar 17**

**Functional neurosurgery**
16:55 - 17:15
M. Lanotte (Italy)

**Functional neurosurgery**
17:15 - 17:35
A. Lavano (Italy)

**“Surgical Treatment of Trigeminal Neuralgia and Facial Pain” Session:**
17:35 - 17:55
A. Savas (Turkey)

**Neuro-oncology**
16:55 - 17:55
Sala Bardot

**Meet the Experts Seminar 18**

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Scientific Programme

**Surgical neuro-oncology**

L. Bello (Italy)  
16:55 - 17:15

**Surgical neuro-oncology**

O. de Divitiis (Italy)  
17:15 - 17:35

**Patient-oriented outcomes in gliomas: a systematic review of clinical trials (1990-2016).**

A. Talacchi (Italy)  
17:35 - 17:55
Thursday, 05 October 2017

Vascular Neurosurgery 09:00 - 10:45

Vascular Neurosurgery 6: Vascular Malformations and Occlusive Disease

Chairs:
S. Eliava (Russian Federation)
T.R. Meling (Norway)

**Natural history of supratentorial cavernous malformations: features of aggressive behaviour**
U. Sure (Germany)

09:00 - 09:15

**Natural history of cerebral AVMs - Helsinki vs. ARUBA series**
M. Niemelä (Finland)

09:15 - 09:30

**Hemodynamic parameters in moyamoya: a guide in clinical decision making?**
H. Kurita (Japan)

09:30 - 09:45

**Microsurgery for unruptured AVMs: Burdenko NSI experience and standpoint**
S. Eliava (Russian Federation)

09:45 - 09:55

**Collateral pathways and vessel plasticity in moyamoya vasculopathy**
M. Czabanka (Germany)

09:55 - 10:02

**Outcome after the treatment of spinal duralarteriovenous fistulae - a single center retrospective study**
K. Ninov (Bulgaria)

10:02 - 10:09

**AneuX - shape as biomarker for aneurysm disease project progress report**
P. Bijjenga (Switzerland)

10:09 - 10:16

**Nimodipine-free management of cerebral vasospasm following aneurysmal rupture; realistic?**
A. Moiraghi (Switzerland)

10:16 - 10:23

**Is ultrasound perfusion imaging capable of detecting mismatch? A proof-of-concept study in acute stroke patients**
R. Reitmeir (Switzerland)

10:23 - 10:30

**Microsurgical treatment of complex intracranial aneurysms (six-year experience)**
N. Polunina (Russian Federation)

10:30 - 10:37

**Pure arterial malformations**
G. Lanzino (United States)

10:37 - 10:44
## Scientific Programme

### General
09:00 - 10:45 Sala Casinò

### Preventing and Rehabilitating Neurological Deficits

**Chairs:**
H. Cerrel Bazo (Italy)
S. Masiero (Italy)

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<tr>
<td>Efficacy and outcome of autologous bone marrow derived stem cells in</td>
<td>09:00 - 09:07</td>
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<td>acute complete spinal cord injury - a randomized placebo controlled</td>
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<td>trial</td>
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<td>R. Saini (India)</td>
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<td>Hand reconstruction in Tetraplegia after spinal cord injuries by</td>
<td>09:07 - 09:14</td>
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<td>using nerve transfer</td>
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<td>M.R. Emamhadi (Iran, Islamic Republic of)</td>
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<tr>
<td>The results of restorative surgical treatment of complete cervical</td>
<td>09:14 - 09:21</td>
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<td>spinal cord injury consequences</td>
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<td>Y. Yaminskyi (Ukraine)</td>
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<td>Development of next-generation delivery constructs for olfactory</td>
<td>09:21 - 09:28</td>
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<td>ensheathing cells following traumatic spinal cord injury</td>
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<td>R.D. Bartlett (United Kingdom)</td>
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<td>Incidence and clinical significance of postoperative delirium after</td>
<td>09:28 - 09:35</td>
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<td>brain tumor surgery</td>
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<td>S. Tamasauskas (Lithuania)</td>
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<td>DTI fiber tracking of arithmetic processing pathways based on results</td>
<td>09:35 - 09:42</td>
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<td>of rTMS in brain tumor patients and correlation with postoperative</td>
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<td>outcome</td>
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<td>S. Ille (Germany)</td>
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<td>Transcranial glossopharyngeal and hypoglossal nerve motor evoked</td>
<td>09:42 - 09:49</td>
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<td>potential (TES-MEPs) in CPA surgery: a prospective study to determine</td>
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<td>the normative data</td>
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<td>G. Del Moro (Italy)</td>
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<td>Outcome prediction by volume of ischemic brain in malignant middle</td>
<td>09:49 - 09:56</td>
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<td>cerebral artery infarction treated by decompressive hemicraniectomy</td>
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<td>C.F. Freyschlag (Austria)</td>
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<td>Predictors of cranial nerve deficits in giant cavernous carotid</td>
<td>09:56 - 10:03</td>
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<td>aneurysms - do aneurysm size, location of mass effect or partial</td>
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<td>thrombosis matter?</td>
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<td>J. Dengler (Germany)</td>
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<tr>
<td>Artificial Neural Networks: the renewed future for outcome prediction</td>
<td>10:03 - 10:10</td>
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<td>in SAH disease models</td>
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<td>G. de Jong (Netherlands)</td>
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<td>Temporal lobe oxygenation during (and after) temporary clipping for</td>
<td>10:10 - 10:17</td>
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<td>MCA aneurysm surgery</td>
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<td>P.A. Silva (Portugal)</td>
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<td>Microsurgical outcome of anterior circulation clipping during the</td>
<td>10:17 - 10:24</td>
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<td>period of vasoospasm; single center experience in Egypt</td>
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<td>M. Taha (Egypt)</td>
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## Scientific Programme

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<tbody>
<tr>
<td>10:24 - 10:31</td>
<td><strong>Prior 3D simulations benefit future patients with similar pathologies during pre-operative consultation</strong></td>
<td>L. Schlachter (United States)</td>
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<tr>
<td>10:31 - 10:38</td>
<td><strong>Surgery of unruptured aneurysms after planning in a virtual reality environment: technique and outcome analysis</strong></td>
<td>R. Kockro (Switzerland)</td>
</tr>
<tr>
<td>10:38 - 10:45</td>
<td><strong>Application of extracorporeal circulation technique in carotid arterectomy for complicated carotid artery disease: review of 24 cases</strong></td>
<td>Y. Niiya (Japan)</td>
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</tbody>
</table>

### Neuro-oncology 8: Beyond WBRT and TMZ

**Neuro-oncology 09:00 - 10:45 Sala Volpi**

**Chairs:**
P. Burger (United States)
N. Chiocca (United States)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:00 - 09:15</td>
<td><strong>Astrocytoma, oligodendroglioma, and glioblastoma in the 2016 WHO classification of CNS tumors</strong></td>
<td>P. Burger (United States)</td>
</tr>
<tr>
<td>09:15 - 09:30</td>
<td><strong>Gene and Oncolytics Immunotherapy Clinical Trials for Glioblastoma</strong></td>
<td>N. Chiocca (United States)</td>
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<tr>
<td>09:30 - 09:45</td>
<td><strong>Neuro-oncology transaltional research</strong></td>
<td>I. Nakano (United States)</td>
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<tr>
<td>09:45 - 09:52</td>
<td><strong>Antiangiogenic drugs as treatment for glioma: The end of an era?</strong></td>
<td>G. Lombardi (Italy)</td>
</tr>
<tr>
<td>09:52 - 09:59</td>
<td><strong>The influence of age on morbidity, mortality and complications after resection of brain tumors - Milan - Zurich experience</strong></td>
<td>M.N. Stienen (Switzerland)</td>
</tr>
<tr>
<td>09:59 - 10:06</td>
<td><strong>Assessing complexity and predicting outcome in brain tumor surgery: the Milan Complexity Scale</strong></td>
<td>M. Broggi (Italy)</td>
</tr>
<tr>
<td>10:06 - 10:13</td>
<td><strong>Leksell Gamma Knife Radiosurgery for low grade gliomas: results and potentially predictive factors of an italian multicentric study in 288 patients</strong></td>
<td>A. La Camera (Italy)</td>
</tr>
<tr>
<td>10:13 - 10:20</td>
<td><strong>Stereotactic crysurgery of mesial temporal sclerosis and deep-seated cerebral gliomas</strong></td>
<td>A. Kholyavin (Russian Federation)</td>
</tr>
<tr>
<td>10:20 - 10:27</td>
<td><strong>Stereotactic versus neuronavigation brain lesion biopsies. Are we evolving on the right path?</strong></td>
<td>R. Ramos (Portugal)</td>
</tr>
</tbody>
</table>
Scientific Programme

Gamma knife radiosurgery as primary treatment for large vestibular schwannomas: clinical results at long-term follow-up in a series of 59 patients
N. Boari (Italy)

Gamma knife radiosurgery for low-grade gliomas: clinical results at long-term follow-up on tumor control and patients’ quality of life
F. Gagliardi (Italy)

Ethical and Medico-legal Issues in Neurosurgery

Chairs:
M.L. Broekman (Netherlands)
D. Ferrara (Italy)
T. Mathiesen (Denmark)

Ethics of stem cell therapies for neurological diseases
N. Balak (Turkey)

Head transplant: Ethical implications from research perspective
J. Brennum (Denmark)

 Decompressive hemicraniectomy for trauma — ethical implications
T. Mathiesen (Denmark)

Alternative treatments for recurrent GBM patients
M.L. Broekman (Netherlands)

Oversight and regulation and controversial neurosurgical procedures
W. Moojen (Netherlands)

Payment for controversial neurosurgical therapies
W. Peul (Netherlands)

Medical tourism for controversial neurosurgical procedures
H. Kolenda (Germany)

Harmonization of Training

Chairs:
C. Matula (Austria)
J. van Loon (Belgium)

The role of UEMS in harmonization of postgraduate training
J. van Loon (Belgium)

Harmonization in neurosurgical education & training - A worldwide need?
C. Matula (Austria)
Scientific Programme

Harmony in training: encouraging the good, avoiding the bad, killing the ugly.
A. Demetriades (United Kingdom)

3.0 neurosurgical training: From virtual reality to simulation
F. DiMeco (Italy)

Global Neurosurgery: Report from the 2017 World Health Assembly
G. Rosseau (United States)

Safety of resident training in (semi-) elective tumor craniotomies - data from a prospective registry of complications and outcome
M.N. Stienen (Switzerland)

Neurosurgical simulation and psycho-metric assessment: can we train better neurosurgeons?
A. Perin (Italy)

Neurosurgery residency training in Europe: results from a multinational survey of 38 countries
N. Alshafai (Canada)

Certification and accreditation process of neurosurgical residents in Europe
N. Alshafai (Canada)

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

Chairs:
D. d’Avella (Italy)
L. Denaro (Italy)

How I would have done it differently
V. Beneš (Czech Republic)
Scientific Programme

**Pediatric neuro-oncology: How I would and should have done it differently**
S. Constantini (Israel)

**AVM**
A. Grotenhuis (Netherlands)

**How brain surgery is improving with the help of brain mapping**
M. Samii (Germany)

**I will change my mind and not decompress this boy anymore**
F. Servadei (Italy)

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General
13:00 - 14:00
Sala Perla

**Closing Session & Awards Ceremony**

**Chairs:**
D. d'Avella (Italy)
A. Grotenhuis (Netherlands)

**Aesculap EANS Research prizewinner for best clinical paper: Fever worsens neurological outcome in patients with acute traumatic spinal cord injury**
M. Gallagher (United Kingdom)

13:00 - 13:07

**Aesculap EANS Research prizewinner for best laboratory paper: Nogo-A regulates vascular network architecture in the postnatal brain**
T. Wälchli (Switzerland)

13:07 - 13:14

**Presentation of Aesculap EANS Research Prize for best clinical paper to Matthew Gallagher**

13:14 - 13:16

**Presentation of Aesculap EANS Research Prize for best laboratory paper to Thomas Wälchli**

13:16 - 13:18

**Presentation of the Braakman Award to Juan Brin and Ricardo Diaz**

13:18 - 13:21

**Presentation of the EANS2017 Best Oral Abstracts awards**

13:21 - 13:25

**Presentation of the EANS2017 Best Posters awards**

13:25 - 13:29

**Presentation of the EANS Lifetime Achievement Award to Francesco Tomassello**

13:29 - 13:37

**Presentation of the EANS Medal of Honour for Service to the EANS to Johannes Schramm**

13:37 - 13:45

**Closing words from the EANS2017 Congress President**
D. d'Avella (Italy)

13:45 - 13:50

**Invitation from the EANS2018 Congress President**
M. Bruneau (Belgium)

13:50 - 13:55

**Closing words from the outgoing and incoming EANS Presidents**
J. Lafuente (Spain)
A. Grotenhuis (Netherlands)

13:55 - 14:00