

Scientific Programme

Tuesday, 24 September 2019

Radiosurgery
08:00 - 13:00

Wicklow Hall 1

EANS/ESSFN Basic Course in Neuro-Radiosurgery

Chairs:

B. Lippitz (Germany)
D. Rawluk

Basic principles: Technological alternatives in stereotactic radiosurgery	08:00 - 08:30
Fundamental limitations: Treatment volumes and threshold doses B.. Gatterbauer (Austria)	08:30 - 09:00
Malignant tumours: Brain metastases B. Lippitz (Germany)	09:00 - 09:30
Benign tumours: Meningiomas M. Longhi (Italy)	09:30 - 10:00
Benign tumours: Vestibular schwannoma	10:00 - 10:30
Break	10:30 - 11:00
Arterio-venous malformations and cavernomas M.. Radatz (United Kingdom)	11:00 - 11:30
Radiosurgery for functional indications	11:30 - 12:00
Benign tumours: Pituitary adenoma and craniopharygioma P. Picozzi (Italy)	12:00 - 12:30
Treatment of trigeminal neuralgia using Cyber Knife D. Rawluk	12:30 - 13:00

Spine
11:00 - 12:30

Auditorium

CSRS Symposium

Chairs:

C. Vleggeert-Lankamp (Netherlands)
J. Duff (Switzerland)

An overview of literature on cervical disc prosthesis in comparison to alternatives C. Vleggeert-Lankamp (Netherlands)	11:00 - 11:15
Adjacent segment disease, heterotopic ossification and range of motion after anterior discectomy C. Vleggeert-Lankamp (Netherlands)	11:15 - 11:30

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Case report and discussion of sagittal balance in the degenerative spine E. Shiban (Germany)	11:30 - 12:00
Case reports and discussion of sagittal balance in cervical deformity J. Duff (Switzerland)	12:00 - 12:30

General
11:30 - 14:20

Ecocem Room

Latest Updates in Neurosurgery

Chairs:

S. Kurpad (United States of America)
V. Leinonen (Finland)

Innovations in epilepsy surgery P.D. Adelson (United States of America)	11:30 - 11:42
Value of endoscopic anterior fossa approaches F. Gentili (Canada)	11:42 - 11:54
The business of spine care: Managing access and maintaining patient satisfaction S. Kurpad (United States of America)	11:54 - 12:06
Surgical management of brainstem cavernous malformations A. Dehdashti (United States of America)	12:06 - 12:18
Latest trends in severe TBI management A. Valadka (United States of America)	12:18 - 12:30
Latest trends in AVM management M. Cenzato (Italy)	12:30 - 12:42
CSF circulation - reality or myth? M. Vukic (Croatia)	12:42 - 12:54
Anterior temporal lobectomy and amygdalohippocampectomy complications: A critical review K. Fountas (Greece)	12:54 - 13:06
Molecular profiling and targeted PET imaging in NPH and early Alzheimers disease V. Leinonen (Finland)	13:06 - 13:18
The eye as keyhole to analyse pathological states of the brain G.A. Schubert	13:18 - 13:30
Updates in LGG surgery M. Skrap (Italy)	13:30 - 13:42
The use of intrathecal morphine in single level spinal surgery - the efficacy and safety of an proposed dosage I. Vlok (South Africa)	13:42 - 13:54

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The future of vascular neurosurgery M. Zuccarello (United States of America)	13:54 - 14:06
Mis resection of intradural tumors N. Konovalov (Russian Federation)	14:06 - 14:18

Spine
12:30 - 13:00

Auditorium

Spine Abstracts Session

Chairs:

C. Vleggeert-Lankamp (Netherlands)
J. Duff (Switzerland)

Cauda equina decompression surgery - a retrospective analysis of factors influencing outcomes in a single tertiary centre	12:30 - 12:38
Posterior Cervical Foraminotomy v Anterior Cervical Discectomy for cervical brachialgia (FORVAD) study recruitment update	12:38 - 12:46
Surgical outcomes of minimally invasive lateral lumbar interbody fusion for osteoporotic vertebral fracture	12:46 - 12:54
Surgery for Extraforaminal Lumbar Disc Herniation: a single center comparative observational study	12:54 - 13:02

On invitation only
13:00 - 14:00

Liffey Meeting Room 1

Individual Membership Committee Meeting (on invitation only)

Spine
13:15 - 14:45

Auditorium

AO Symposium: Controversies and News in Spinal Trauma

Chairs:

C. Thomé (Austria)
J. Duff (Switzerland)

Controversies in thoracolumbar burst fracture management C. Thomé (Austria)	13:15 - 13:25
Discussion on the topic above mentioned	13:25 - 13:40
Classification and management of osteoporotic fractures J. Duff (Switzerland)	13:40 - 13:50
Discussion on the topic above mentioned	13:50 - 14:05
Management of cervical facet joint dislocation B. Meyer (Germany)	14:05 - 14:15

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Discussion on the topic above mentioned	14:15 - 14:30
What's new in the management of spinal trauma?	14:30 - 14:40
C. Thomé (Austria)	

Pediatric Neurosurgery
13:15 - 15:15

Wicklow Hall 2b

ESPN - EANS Course Symposium: Spinal Tumors

Chairs:

S. Sgouros (Greece)

Specificities and treatment of spinal tumors in children	13:15 - 13:25
M. Messing-Jünger (Germany)	
Illustratives cases 1	13:25 - 13:35
S. Sgouros (Greece)	
Illustratives cases 2	13:35 - 13:45
Illustratives cases 3	13:45 - 13:55
L. Massimi (Italy)	
Illustratives cases 4	13:55 - 14:05
F. Sala (Italy)	
Illustratives cases 5	14:05 - 14:15
Specificities of spinal tumors and treatment options in adults	14:15 - 14:25
Illustratives cases 6	14:25 - 14:35
V. Olesen (Denmark)	
Discussion on the topics above mentioned	14:35 - 14:55
Break	14:55 - 15:15

General
13:45 - 15:45

Wicklow Hall 2a

FLANC Keynote Session

Chairs:

C. Yampolsky (Argentina)
M. Cenzato (Italy)

Multidisciplinary approach for primary spinal tumors - Q&A	13:45 - 14:00
C. Yampolsky (Argentina)	
Parahippocampal lesions causing refractory epilepsy: how to deal with them - Q&A	14:00 - 14:15
F. Sanchez (Argentina)	

Scientific Programme

Gliomas and epilepsy: surgical strategies - Q&A F. Sanchez (Argentina)	14:15 - 14:30
Institutional protocol for treatment of incidental aneurysms: Decision making, application and results - Q&A M. Baccanelli (Argentina)	14:30 - 14:45
Novel extradural less invasive approaches for cerebrovascular and skull base surgery - Q&A J. Mura (Chile)	14:45 - 15:00
MAV s and ICH: Surgical strategies - Q&A E. Spagnuolo (Uruguay)	15:00 - 15:15
Chordoid gliomas of III ventricle - Q&A R. Burgos	15:15 - 15:30
Trigeminal root massage in the surgical treatment of trigeminal neuralgia patients without arterial contact E. Urculo (Spain)	15:30 - 15:40
Q&A on the topics above mentioned	15:40 - 15:45

On invitation only
14:30 - 18:30

Liffey Meeting Room 2A

EANS General Assembly

Spine
15:00 - 18:00

Auditorium

EUROSPINE: Complex Spinal Case Discussions

Chairs:

T. Pigott (United Kingdom)
B. Meyer (Germany)

New trends in diagnostics and role of "early" surgery in degenerative cervical myelopathy E. Tessitore (Switzerland)	15:00 - 15:30
Surgery in ankylosing spondylitis B. Meyer (Germany)	15:30 - 16:00
Intramedullary tumours T. Pigott (United Kingdom)	16:00 - 16:30
OPLL B. Depreitere (Belgium)	16:30 - 17:00
Deformity correction for syringomyelia J. Duff (Switzerland)	17:00 - 17:30
Discussion on the topics above mentioned	17:30 - 18:00

Scientific Programme

Functional Neurosurgery
15:00 - 16:20

Wicklow Hall 1

Functional Neurosurgery Workshop 1

Chairs:

J. Phillips (Ireland)
D. Sakas (Greece)

MR guided ultrasound	15:00 - 15:15
D. Nandi (United Kingdom)	
Deep brain stimulation for intractable pain	15:15 - 15:30
T. Aziz (United Kingdom)	
Epilepsy networks	15:30 - 15:45
M. Goodfellow (United Kingdom)	
Q&A on the topics above mentioned	15:45 - 16:20

Pediatric Neurosurgery
15:15 - 17:15

Wicklow Hall 2b

ESPN - EANS Course Symposium: Chiari Type 1 Malformation

Chairs:

F. diRocco (France)
M. Juhler (Denmark)

Chiari type 1 malformation spectrum in children	15:15 - 15:25
L. Massimi (Italy)	
Treatment options of Chiari in children	15:25 - 15:35
F. diRocco (France)	
Illustratives cases 1	15:35 - 15:45
Illustratives cases 2	15:45 - 15:55
S. Sgouros (Greece)	
Illustratives cases 3	15:55 - 16:05
Illustratives cases 4	16:05 - 16:15
M. Juhler (Denmark)	
Illustratives cases 5	16:15 - 16:25
P. Chumas	
Specificities of Chiari and treatment options in adults	16:25 - 16:35
Illustratives cases 6	16:35 - 16:45
R. Fric (Norway)	
Illustratives cases 7	16:45 - 16:55
R. Fric (Norway)	
Discussion on the topics above mentioned	16:55 - 17:15

Scientific Programme

General
16:00 - 18:00

Wicklow Hall 2a

AASNS

MIS TLIF, is it the gold standard yet S. Sharif (Pakistan)	16:00 - 16:10
MIS TLIF, is it the gold standard yet - Q&A S. Sharif (Pakistan)	16:10 - 16:15
Problems in instrumentation of syndromic atlantoaxial dislocation N. Muthukumar (India)	16:15 - 16:25
Problems in instrumentation of syndromic atlantoaxial dislocation - Q&A N. Muthukumar (India)	16:25 - 16:30
Strategy in thalamus and brainstem tumours V.P. Singh (India)	16:30 - 16:40
Strategy in thalamus and brainstem tumours - Q&A V.P. Singh (India)	16:40 - 16:45
Intraventricular tumours in children W.T. Seow (Singapore)	16:45 - 16:55
Intraventricular tumours in children - Q&A W.T. Seow (Singapore)	16:55 - 17:00
Glioblastoma - does location matter? I. Paldor	17:00 - 17:10
Glioblastoma - does location matter? - Q&A I. Paldor	17:10 - 17:15
Functional preservation in acoustic neuroma	17:15 - 17:25
Functional preservation in acoustic neuroma - Q&A	17:25 - 17:30
Recent advances in aneurysm surgery Y. Kato	17:30 - 17:40
Recent advances in aneurysm surgery - Q&A Y. Kato	17:40 - 17:45
Natural course and management risks of Unruptured intracranial aneurysms: Remaining challenges A. Morita (Japan)	17:45 - 17:55
Natural course and management risks of unruptured intracranial aneurysms: Remaining challenges - Q&A A. Morita (Japan)	17:55 - 18:00

Scientific Programme

Functional Neurosurgery
16:30 - 17:20

Wicklow Hall 1

Functional Neurosurgery Workshop 2

Chairs:

A. Green (United Kingdom)
C.P. Torres Diaz Gonzalez-Lopez

TLE. and learning and memory	16:30 - 16:45
W. Gray (United Kingdom)	
Radiosurgery for functional work	16:45 - 17:00
J. Regis (France)	
SEEG and robotics	17:00 - 17:15
Q&A on the topics above mentioned	17:15 - 17:20

Other
17:20 - 18:00

Wicklow Hall 1

Ethics, History Education Session

Chairs:

A. Green (United Kingdom)
C.P. Torres Diaz Gonzalez-Lopez

Essential non clinical skills for the senior neurosurgical trainee - The UK Neurosurgery Finishing School project	17:20 - 17:28
V. Iyer (United Kingdom)	
Stars Cascade: 3D rehearsal, simulation, and debriefing to better clip cerebral aneurysms	17:28 - 17:36
E. Gambatesa (Italy)	
Technical and non-technical skills training by combined simulation and cadaver lab dissection: The ABC Basic Brain Course (Mi-Ge)	17:36 - 17:44
A. Perin (Italy)	
An analysis of conflicts of interest in recent neurosurgical randomized controlled trials	17:44 - 17:52
A.M. Klukowska (Netherlands)	
Safety of resident training in the microsurgical resection of intracranial tumors: data from a prospective registry of complications and outcome	17:52 - 18:00
F. Vasella (Switzerland)	
Non-technical skills and resilience training at the undergraduate level: a forum addressing burnout for students interested in neurosurgery	18:00 - 18:08
A. Ansaripour (United Kingdom)	

Scientific Programme

Other
18:30 - 20:00

Auditorium

Opening Ceremony

Chairs:

J. Lafuente (Spain)
C. Bolger (Ireland)

EANS2019 Congress President C. Bolger (Ireland)	18:30 - 18:40
EANS President J. Lafuente (Spain)	18:40 - 18:50
Clinical Director of Neurosurgery S. MacNally (Ireland)	18:50 - 19:00
National Neurosurgery Unit - Beaumont Hospital S. Young (Ireland)	19:00 - 19:10
Irish Act	19:10 - 19:35
Final Word & Invitation to Welcome Reception C. Bolger (Ireland)	19:35 - 19:40

Scientific Programme

Wednesday, 25 September 2019

Other
08:30 - 10:00

Auditorium

Training

Chairs:

J. van Loon (Belgium)
A.K. Demetriades (United Kingdom)

Neurosurgical Training - idir dhá thine Bhealtaine T. Meling (Switzerland)	08:30 - 08:45
Mastery in surgery and the role of the trainer D. O'Regan (United Kingdom)	08:45 - 09:00
Quality assurance in European neurosurgery residency training: the role of JRAAC E. Uhl (Germany)	09:00 - 09:15
From trainee to specialist: How to manage the transition R. Nelson (United Kingdom)	09:15 - 09:30
Neurosurgical Training in the 21st Century: Quo Vadis? V. Papanastassiou (Cyprus)	09:30 - 09:45
Round table discussion on the above mentioned topics	09:45 - 10:00

Neurotrauma & Critical Care
08:30 - 10:00

Ecocem Room

Sports Injuries for the Neurosurgeon

Chairs:

N. Marklund (Sweden)
P. Vajkoczy (Germany)

Cervical disc disease in the athlete C. Shaffrey (United States of America)	08:30 - 08:40
Critical aspects on current return-to-play protocols B. Willer (United States of America)	08:40 - 08:50
Is it -really- safe to head the ball in soccer? I.K. Koerte (Germany)	08:50 - 09:00
On-site concussion evaluation- the SCAT 5 P. Vajkoczy (Germany)	09:00 - 09:10
Structural imaging findings in a cohort of concussed contact sport athletes D. Bown (United Kingdom)	09:10 - 09:18

Scientific Programme

Time for a paradigm shift in the management of mild traumatic brain injury - innovative strategies to meet the demand for follow up services R. Lobo (United Kingdom)	09:18 - 09:26
Early levels of tau and Aβ40 and Aβ42 in predicting the outcome of mild TBI M.I. Hossain (Finland)	09:26 - 09:34
Admission levels of serum neurofilament light protein are associated with the fractional anisotropy of the late diffusion-weighted imaging following mild traumatic brain injury M.I. Hossain (Finland)	09:34 - 09:42
Endoscopic assisted evacuation of chronic subdural hematoma, a changing paradigm? U. Ben David (Israel)	09:42 - 09:50
Chronic subdural hematoma in patients over 80 years old: a swiss multicentric study	09:50 - 09:58

Neuro-Oncology
08:30 - 10:00

Wicklow Hall 1

New Technologies in Neurosurgical Oncology

Chairs:

S. Krieg (Germany)
S. MacNally (Ireland)

Navigated magnetic brain stimulation S. Krieg (Germany)	08:30 - 08:40
Laser thermocoagulation (LITT) R. Grossmann (Israel)	08:40 - 08:50
Smart cyber operating theatre; using robotics and artificial intelligence Y. Muragaki (Japan)	08:50 - 09:00
Repeated craniotomies for intracranial tumors: is the risk increased? Pooled analysis of two prospective, institutional registries of complications and outcomes C.M. Zattra (Italy)	09:00 - 09:08
Early postoperative complications in meningioma: predictive factors and impact on outcome J.-M. Lemée (Switzerland)	09:08 - 09:16
Resection of tumors within the primary motor cortex by using High-Frequency stimulation: oncological and functional efficiency of this versatile approach based upon clinical conditions M. Rossi (Italy)	09:16 - 09:24
Development and multicenter external validation of a machine learning-based prediction tool for functional impairment following microsurgical resection of intracranial tumors V.E. Staartjes (Switzerland)	09:24 - 09:32

Scientific Programme

No influence of supramarginal resection on local control or postmetastatic survival in brain metastases E. Kurz (Germany)	09:32 - 09:40
Personalized response assessment to microglia modulators in glioblastoma bioreactors G. Hutter (Switzerland)	09:40 - 09:48
Influence of individual CpG methylation status on outcome in adult patients with glioblastoma multiforme receiving alkylating agent treatment S. Siller (Germany)	09:48 - 09:56

Spine
08:30 - 10:00

Wicklow Hall 2a

Debates in Spine - New Technologies

Chairs:

W. Peul (Netherlands)
M. Ivanov (United Kingdom)

Navigation in spine surgery will be used for every spinal pedicle screw placement in 10 years time M. Ivanov (United Kingdom) A.K. Demetriades (United Kingdom)	08:30 - 08:50
Navigation in spine surgery will be used for every spinal pedicle screw placement in 10 years time - Q&A M. Ivanov (United Kingdom) A.K. Demetriades (United Kingdom)	08:50 - 09:00
Robotics in spine surgery is just a new fad W. Peul (Netherlands) E. Fomekong (Belgium)	09:00 - 09:20
Robotics in spine surgery is just a new fad - Q&A W. Peul (Netherlands) E. Fomekong (Belgium)	09:20 - 09:30
When things go wrong in spinal surgery J. Timothy (United Kingdom)	09:30 - 09:40
Spinal subependymomas, do no harm, little may be more H. Soleiman (United Kingdom)	09:40 - 09:48
The influence of comorbidities on reoperations following primary surgery of lumbar degenerative diseases: a nationwide population-based retrospective cohort study from 2009 - 2016 H.-K. Park (Korea, Republic of)	09:48 - 09:56

Scientific Programme

Peripheral NV
08:30 - 10:00

Wicklow Hall 2b

Peripheral Nerve Surgery - Tumors

Chairs:

L. Rasulic (Serbia)
L. Jacques

Evolution of peripheral nerve surgery a relook at history	08:30 - 08:40
A. Sekhar (India)	
Peripheral nerve sheath tumors	08:40 - 08:50
C. Heinen (Germany)	
Peripheral nerve tumors - Standards of treatment	08:50 - 09:00
C. Matthies (Germany)	
Challenges in nerve tumour surgery	09:00 - 09:10
N. Dengler (Germany)	
Brachial plexus tumors. Our experience in 88 cases over a period of 17 years	09:10 - 09:20
G. Antoniadis (Germany)	
Tip and tricks for the resection of tumor at the c8-t1 level and the chest	09:20 - 09:30
Retroperitoneal nerve tumors - systematic approach	09:30 - 09:40
T. Kretschmer (Austria)	
Q&A on the topics above mentioned	09:40 - 09:45
Anomalous muscles of the wrist encountered during endoscopic carpal tunnel surgery	09:45 - 09:53
S.-H. Park (Korea, Republic of)	

Other
08:30 - 10:00

Wicklow Meeting Room 1

IONM

Chairs:

F. Sala (Italy)
J. Prell (Germany)

Intraoperative neurophysiological monitoring of the facial nerve: Free running EMG vs corticobulbar MEPs	08:30 - 08:40
J. Prell (Germany)	
Intraoperative neurophysiological monitoring of the motor system in brain glioma surgery: Awake or asleep?	08:40 - 08:50
L. Bello (Italy)	
Monitoring of the human self	08:50 - 09:00
K. Schaller (Switzerland)	

Scientific Programme

Training in intraoperative neurophysiology: Should this be part of the neurosurgical curriculum?	09:00 - 09:10
F. Sala (Italy)	
Preserving visual field in awake surgery: a new intraoperative test	09:10 - 09:18
M. Conti Nibali (Italy)	
Correlation between intraoperative electrophysiological data of ulnar nerve decompression and postoperative outcome	09:18 - 09:26
J.F. Hamilton (United States of America)	
Intraoperative mapping and monitoring of visual pathways in patients with intrinsic brain tumours: technique description and case series	09:26 - 09:34
J. Lavrador (United Kingdom)	
Application of intraoperative electrocorticography in precise bypass surgery of adult moyamoya disease: a preliminary study	09:34 - 09:42
J. Su (China)	
The evaluation of postoperative motor function deficits after supratentorial brain tumor surgery through the analysis of intraoperative MEP and ischemic lesion on postoperative DWI	09:42 - 09:50
Y.I. Kim (Korea, Republic of)	
Intraoperative neurophysiological monitoring during scoliosis surgery in patients with duchenne muscular dystrophy	09:50 - 09:58
S.E. Dulfer (Netherlands)	

Vascular Neurosurgery
08:30 - 10:00

Wicklow Meeting Room 3

Masterclass: New Approaches to Vasospasm Treatment

Chairs:

A. Raabe (Switzerland)
J. Caird

Nicaplant	08:30 - 08:45
P. Vajkoczy (Germany)	
Early drain	08:45 - 09:00
S. Wolf (Germany)	
NO-inhalation	09:00 - 09:15
J. Beck (Germany)	
Stereotactic catheter ventriculocisternostomy for prevention of delayed cerebral infarction	09:15 - 09:30
P. Reinacher (Germany)	
Newton 2	09:30 - 09:45
D. Haenggi (Germany)	
Decompressive craniectomy in malignant MCA infarction in times of endovascular thrombectomy	09:45 - 09:53
J. Göttische (Germany)	

Scientific Programme

Role of anesthesia type on the risk of brain infarction after carotid endarterectomy - a randomized trial	09:53 - 10:01
M. Orlický (Slovakia)	

Spinal Neurosurgery
08:30 - 10:00

Wicklow Meeting Room 4

Masterclass: Spine 1

Chairs:

N. Konovalov (Russian Federation)
K. Vlachos (Greece)

Treatment of cervical kyphosis	08:30 - 08:45
J. Timothy (United Kingdom)	
Implant related infections a surgeons perspective	08:45 - 09:00
B. Meyer (Germany)	
Modern treatment of intradural tumours	09:00 - 09:15
C. Thomé (Austria)	
Image guided cervical fixation	09:15 - 09:30
J. Duff (Switzerland)	
Minimally invasive versus open posterior cervical fusion: a single center experience	09:30 - 09:38
G. Tender (United States of America)	
Clinical outcome of cervical key-hole corpectomy for cervical myelopathy with ossification of posterior longitudinal ligament	09:38 - 09:46
Y. Aydin (Turkey)	
A change in protocol of wound care in spinal surgery and its impact on post-operative wound infections in neurosurgery	09:46 - 09:54
N. Silva Baticam (Switzerland)	

Pediatric Neurosurgery
08:30 - 10:00

Wicklow Meeting Room 5

Masterclass: ETV in Children and Adult Patients - Why, When, How?

Chairs:

C. Mallucci (United Kingdom)
M. Juhler (Denmark)

ETV in shunted children. Case based presentation	08:30 - 08:45
C. Mallucci (United Kingdom)	
ETV in shunted adolescents/young adults with childhood hydrocephalus	08:45 - 09:00
M. Juhler (Denmark)	
ETV - case reports and complications and tricks	09:00 - 09:15
A. Grotenhuis (Netherlands)	

Scientific Programme

Re Do ETV when and why	09:15 - 09:30
ETV vs. shunt survival statistics A. Kulkarni (Canada)	09:30 - 09:45
Round table discussion and wrap-up on the above mentioned topics	09:45 - 10:00

Pediatric Neurosurgery
10:00 - 10:40

Poster Booth 1 - ePoster Area

ePoster Oral Presentation Pediatric Neurosurgery & Hydrocephalus and CSF Dynamics in Adults

Chairs:

P.D. Adelson (United States of America)
S. Sgouros (Greece)

Surgical management of paediatric intra-cranial suppuration. A single centre experience M. Makwana (United Kingdom)	10:00 - 10:03
Computerised predictive model for differential diagnosis of idiopathic normal pressure hydrocephalus based on complex assessment of most specific neuroimaging symptoms A. Stanishevskiy (Russian Federation)	10:03 - 10:06
The effect of sedation on intracranial opening pressure S. Al-Ahmad (United Kingdom)	10:06 - 10:09
Intracranial dynamics in the supine and standing positions: differences between secondary hydrocephalus, idiopathic normal pressure hydrocephalus, pseudotumor cerebri and Chiari malformation R. Martin-Laez (Spain)	10:09 - 10:12
Telemetric intracranial pressure monitoring in patients with suspected intracranial hypertension S. Banos (Greece)	10:12 - 10:15
Changes in CSF dynamics following endoscopic repair of anterior skull base defects S. Mullins (United Kingdom)	10:15 - 10:18
Overshunting associated myelopathy - case series M. Schwake (Germany)	10:18 - 10:21
Diagnosis of ventriculo-peritoneal shunt malfunction: a practical algorithm M. Broggi (Italy)	10:21 - 10:24
Changes of N-terminal pro B-type natriuretic peptide (NT-proBNP) after ventriculoperitoneal shunting and endoscopic third ventriculostomy M. Urbonas (Lithuania)	10:24 - 10:27

Scientific Programme

Neurotrauma & Critical Care
10:00 - 10:40

Poster Booth 2 - ePoster Area

ePoster Oral Presentation Trauma & Critical Care

Chairs:

A. Belli (United Kingdom)
A. Lagares (Spain)

Variation in neurosurgical management of traumatic brain injury: a survey in 68 centers participating in the CENTER-TBI study	10:00 - 10:03
T.A. van Essen (Netherlands)	
Is chronic subdural haematoma a sentinel health event? Analysis of long-term survival	10:03 - 10:06
A. Kumaria (United Kingdom)	
Temporal changes in outcome following intensive care unit treatment after traumatic brain injury: a 17-year experience in a large academic neurosurgical centre	10:06 - 10:09
M. Lindfors (Finland)	
Volume change in frontal cholinergic structures after traumatic brain injury and cognitive outcome	10:09 - 10:12
A. Östberg (Finland)	
Safety of early MRI examinations in severe TBI: a test battery for appropriate patient selection	10:12 - 10:15
O. Petr (Austria)	
Comparing outcomes in the use of burr-holes and mini-craniotomies in the evacuation of chronic subdural haemorrhage	10:15 - 10:18
S. Yordanov (United Kingdom)	
Subdural versus subgaleal drainage for chronic subdural hematomas - a post hoc analysis of the TOSCAN trial	10:18 - 10:21
L. Häni (Switzerland)	
Does steroid therapy reduce the risk of crossing over from conservative to surgical treatment after asymptomatic SDH: a cohort study and literature review	10:21 - 10:24
C.C.T. Petralia (United Kingdom)	
Geriatric traumatic brain injuries in Finland: epidemiological trends from 2004 to 2014	10:24 - 10:27
J.P. Posti (Finland)	
The complications, outcomes and management strategies of non-missile penetrating head injuries	10:27 - 10:30
B. Harrington (South Africa)	
Dorsal fusion as correction of craniocervical and atlantoaxial instability in patients with traumatic lesions using O-Arm system	10:30 - 10:33
N. Mirchev (Germany)	

Scientific Programme

On invitation only
10:30 - 14:00

Wicklow Meeting Room 1

Tumour Section Meeting (on invitation only)

General
10:40 - 11:30

Auditorium

Award Session

Chairs:

J. Lafuente (Spain)
C. Bolger (Ireland)

Introduction of the Lifetime Achievement Award C. Bolger (Ireland)	10:40 - 10:42
Lifetime Achievement Award: The future and challenges of direct drug delivery to the brain S. Gill (United Kingdom)	10:42 - 11:00
Introduction to the European Lecture J. Lafuente (Spain)	11:00 - 11:02
Knowledge, wisdom, technique, technology, and the quest for near zero morbidity A. Raabe (Switzerland)	11:02 - 11:20
Award for exceptional service to European neurosurgery - Alexander N. Konovalov J. Lafuente (Spain) N. Konovalov (Russian Federation)	11:20 - 11:30

On invitation only
10:40 - 12:10

Liffey Meeting Room 2A

Pediatric Section Meeting (on invitation only)

On invitation only
10:40 - 12:10

Liffey Meeting Room 1

Peripheral Nerve Section Meeting (on invitation only)

Functional Neurosurgery
11:30 - 13:10

Auditorium

Functional Neurosurgery

Chairs:

K. Fountas (Greece)
A. Green (United Kingdom)

Scientific Programme

Functional restoration G. Malliaras (United Kingdom)	11:30 - 11:45
Advanced therapies for chronic neurological conditions including transplantation W. Gray (United Kingdom)	11:45 - 12:00
Best Abstract in Functional Neurosurgery: Neural basis of episodic memory in the intermediate term after medial temporal lobe resection C.K. Chung (Korea, Republic of)	12:00 - 12:10
Best Acta Neurochirurgica Paper of the Year in Functional Neurosurgery: Right Brodmann area 18 predicts tremor arrest after Vim radiosurgery: a voxel-based morphometry study C. Tuleasca (Switzerland)	12:10 - 12:20
Focused Ultrasound treatment for movement disorders: preliminary experience M. Allevi (Italy)	12:20 - 12:28
Personalized striatal targets for deep brain stimulation in obsessive-compulsive disorder J. Barcia (Spain)	12:28 - 12:36
Operative posterior disconnection in epilepsy surgery - experience with 29 patients M. Simon (Germany)	12:36 - 12:44
Safety and efficacy of gamma-knife radiosurgery corpus callosotomy for intractable epilepsy S. Boissonneau (France)	12:44 - 12:52
Novel electrophysiological biomarkers and active obsession-provocation in the ventral striatum during awake OCD DBS K. Miller (United States of America)	12:52 - 13:00
Stimulation of the tractography-defined subthalamic nucleus regions correlates with clinical outcomes J. Barcia (Spain)	13:00 - 13:08

On invitation only
12:30 - 14:00

Liffey Meeting Room 2A

Round Table Meeting of iCORIC (on invitation only)

Vascular Neurosurgery
13:00 - 14:30

Wicklow Meeting Room 3

Masterclass: Spinal Vascular Malformations

Chairs:

D. Walsh (United Kingdom)
J. Beck (Germany)

Scientific Programme

Dural fistula & AVM - Surgery D. Walsh (United Kingdom)	13:00 - 13:15
Dural fistulas and AVM - embolisation J. Boogaarts (Netherlands)	13:15 - 13:30
Cavernoma M.A. Arraez (Spain)	13:30 - 13:45
Comparison of the PHASES and UIATS decision support tools with a shared decision-making model at a high-volume UK Neurovascular Centre J. Frantzias (United Kingdom)	13:45 - 13:53
Surgical treatment of brainstem cavernomas (BSCA) A.N. Konovalov (Russian Federation)	13:53 - 14:01
Clinico-angiographic outcome of surgical revascularisation in patients of Moya Moya disease: an institutional experience S. Ariyandath Sreenivasan (India)	14:01 - 14:09
International survey on management of peri-mesencephalic SAH W. Selbi (United Kingdom)	14:09 - 14:17
External validation of the scoring models to predict shunt insertion after aneurysmal subarachnoid haemorrhage D. Vyas (United Kingdom)	14:17 - 14:25

Neuro-Oncology
13:00 - 14:30

Poster Booth 1 - ePoster Area

ePoster Oral Presentation Neuro-Oncology I

Chairs:

S. MacNally (Ireland)

Prophylactic antiepileptic treatment with levetiracetam for patients undergoing supratentorial brain tumor surgery: a two-center matched cohort study J. Soleman (Switzerland)	13:00 - 13:03
The patients' perspective on information level about supportive care in glioma patients -a survey focusing on information needs, clinical studies and alternative therapies M. Ottenhausen (Germany)	13:06 - 13:09
The impact of advanced preoperative planning based on navigated transcranial magnetic stimulation and DTI fiber tracking on surgery of motor-eloquent brain tumors A. Germanò (Italy)	13:09 - 13:12
Predicting cognitive outcomes after resection of brain tumours M. Hart (United Kingdom)	13:12 - 13:15
Intraoperative flow cytometry for the assessment of glioblastoma prognosis G. Alexiou (Greece)	13:15 - 13:18

Scientific Programme

Differentiating healthy cerebral tissue and tumor tissue in real-time using diffuse reflectance spectroscopy G. Burström (Sweden)	13:18 - 13:21
Evaluation of level of anxiety and depression before and after awake surgery for low grade gliomas of dominant hemisphere M. Rahmani (Iran, Islamic Republic of)	13:21 - 13:24
Does multifocality mean prognosis? The case for metastasis and glioblastoma C. Noronha (Portugal)	13:24 - 13:27
Processed death receptor ligand one (PD-L1) expression may be an independent prognostic factor in brain metastases of non-small cell lung carcinoma A.F.C. Hulsbergen (United States of America)	13:27 - 13:30
Would neurosurgeons recruit to the EORTC 1635 phase III study entitled 'IDH mutated 1p/19q intact lower grade glioma following resection: wait Or treat (IWOT)'? S. Mukherjee (United Kingdom)	13:30 - 13:33
nrTMS-based DTI fiber tracking for language-relevant subcortical fiber tracts: feasibility of the probabilistic algorithm C. Negwer (Germany)	13:33 - 13:36
Current intensity, tumour side and histology significantly impact the occurrence of intraoperative seizures for tumour involving motor areas C. Parisi (Italy)	13:36 - 13:39
Characterization of a high resolution PET imager suitable for intraoperative use A. Krivoschapkin (Russian Federation)	13:39 - 13:42
Novel strategies in the treatment of brain metastases of central region: role of preoperative planning S. Cardali (Italy)	13:42 - 13:45
High-Mobility Group-A 2 (HMGA2) overexpression in the invasive border zone of glioblastoma correlates with poor prognosis F. Schwarm (Germany)	13:45 - 13:48
Evidence for a critical role of the left inferior parietal lobule and superior longitudinal fasciculus in proficient text reading S. Boissonneau (France)	13:48 - 13:51
Anaplastic pleomorphic xanthoastrocytoma: report of 18 cases from a single institution A. Belyaev (Russian Federation)	13:51 - 13:54
Extent of resection of brain gliomas - results from a EANS survey G. Anichini (United Kingdom)	13:54 - 13:57
Intra- and postoperative adverse events in awake craniotomy for intrinsic supratentorial brain tumor B. Kwinta (Poland)	13:57 - 14:00

Scientific Programme

Glioma surgery: from motor skills preservation to cognitive function respect G.M. Barbagallo (Italy)	14:00 - 14:03
Specific expression of 11 miRNAs in 83 consecutive primary and corresponding recurrent glioblastoma: respond to treatment, time to recurrence, overall survival and MGMT methylation status B. Matos (Slovenia)	14:03 - 14:06
Extent of resection in glioblastoma - what to aim? C. Noronha (Portugal)	14:06 - 14:09

Vascular Neurosurgery
13:00 - 14:30

Poster Booth 2 - ePoster Area

ePoster Oral Presentation Vascular Neurosurgery

Chairs:

S. Wolf (Germany)
K. O'Neill

Role of Adaptive Immunity in Cerebral Aneurysm Pathogenesis M.S. Ali (United States of America)	13:00 - 13:03
Occipital artery to middle cerebral artery bypass in pediatric moyamoya disease: rescue therapy after failed revascularization H. Andrade Barazarte (China)	13:03 - 13:06
Proximal control of the basilar artery during the subtemporal approach for surgery in the high basilar region: cadaveric dissections and retrospective clinical case series E. Archavlis (Germany)	13:06 - 13:09
Risk factors for growth and management of unruptured intracranial aneurysms - a retrospective study E.F. Bendix (Denmark)	13:09 - 13:12
Surgery of acute occlusion of the extracranial carotid artery: literature metaanalysis V. Beneš Jr	13:12 - 13:15
Mini-craniotomies optimisation using augmented reality (AR) in middle cerebral artery aneurysms clipping P. Bijlenga (Switzerland)	13:15 - 13:18
An independent and pragmatic outcome study of the pipeline embolization device with shield technology in unruptured aneurysms D. Walsh (United Kingdom)	13:18 - 13:21
Analysis of the factors related to the failure of successful recanalization and the influence of thrombus length on SWI, in stent retriever mechanical thrombectomy D.H. Lee (Korea, Republic of)	13:21 - 13:24

Scientific Programme

Cerebral vasospasm following elective clipping of unruptured aneurysm: pathogenetic theories and clinical features of a dangerous underestimated event M. Ceraudo (Italy)	13:24 - 13:27
Early ventriculo peritoneal shunting is associated with a lower rate of CSF infection in aneurysmal subarachnoid hemorrhage M. Roethlisberger (Switzerland)	13:27 - 13:30
Surgical treatment of brainstem cavernomas A. El Ghanam (Egypt)	13:30 - 13:33
Aneurysm treatment in healthy octogenarians with good grade subarachnoid haemorrhage F. Ewbank (United Kingdom)	13:33 - 13:36
EC-IC bypass: a historical perspective and a single centre experience J. Frantzas (United Kingdom)	13:36 - 13:39
Intracranial aneurysms are more frequently located in the Sylvian bifurcation in polycystic kidney disease as compared to sporadic patients M. Georges (Switzerland)	13:39 - 13:42
The assessment of eloquence in the preoperative planning for brain arteriovenous malformations using navigated transcranial magnetic stimulation A. Germanò (Italy)	13:42 - 13:45
Cerebral oxymetry by infrared spectroscopy in the indication of selective shunting during acute carotid endarterectomy A. Hejčl (Czech Republic)	13:45 - 13:48
Continuous intraarterial nimodipine infusion in prevention of delayed cerebral ischemia after aneurysmal subarachnoid haemorrhage A. Kramer (Germany)	13:48 - 13:51
Cerebral angiospasm prophylaxis with intrathecal fibrinolytic therapy in patients with massive subarachnoid hemorrhage after aneurysm rupture E. Bakharev (Russian Federation)	13:51 - 13:54
Influence of intrathecal fibrinolytic therapy on oxidative stress and vascular reactivity indicators in patients with massive aneurysmal subarachnoid hemorrhage E. Bakharev (Russian Federation)	13:54 - 13:57

On invitation only
13:00 - 16:00

Liffey Meeting Room 1

EANS Council Meeting (on invitation only)

Industry Symposium
13:15 - 14:15

Ecocem Room

Industry Sponsored Symposium

Scientific Programme

Industry Symposium
13:15 - 14:15

Wicklow Hall 2a

Industry Sponsored Symposium

Other
14:30 - 16:10

Auditorium

Global Neurosurgery

Chairs:

K. Adler

W. Harkness (United Kingdom)

Introduction and setting the scene	14:30 - 14:35
W. Harkness (United Kingdom)	
Welcome message by the Taoiseach of Ireland	14:35 - 14:43
L. Varadkar (Ireland)	
The scaling up of surgical care in Africa: An opportunity for European neurosurgical collaborative partnerships	14:43 - 14:51
E. Makasa	
Different models of collaboration in global neurosurgery	14:51 - 14:59
J. Lafuente (Spain)	
Just a drop in the ocean? On the significance of small projects in Africa	14:59 - 15:07
D. Class (Germany)	
Setting up an educational foundation: The NED model	15:07 - 15:15
J. Piquer	
G4 and Encore; Lobbying for the neglected surgical patient and training seasoned neurosurgeons	15:15 - 15:23
G. Rosseau (United States of America)	
Global surgery - An academic discipline?	15:23 - 15:31
R. Khundkar	
Achieving sustainable development goals through humanitarian neurosurgery in Sub Saharan Africa - The formidable potential impact of a formal CAANS-EANS collaboration	15:31 - 15:39
M. Qureshi (Kenya)	
Discussion on the topics above mentioned	15:39 - 16:09
K. Adler	
E. O'Flynn	
E. Makasa	
J. Lafuente (Spain)	
D. Class (Germany)	
J. Piquer	
G. Rosseau (United States of America)	
R. Khundkar	
M. Qureshi (Kenya)	

Scientific Programme

On invitation only
14:30 - 16:00

Liffey Meeting Room 2A

Skull Base Meeting (on invitation only)

Technology
16:10 - 16:50

Poster Booth 1 - ePoster Area

ePoster Oral Presentation Technology & Innovations

Chairs:

B. Meyer (Germany)

Specto-VR as a novel 3D Virtual Reality planning software in aneurysm surgery L. Greuter (Switzerland)	16:10 - 16:13
Optical coherence tomography for intraoperative guidance in glioma surgery K. Yashin (Russian Federation)	16:13 - 16:16
Hybrid robotics for endoscopic skull base surgery: PEER preclinical evaluation of surgeons' first impression F. Zappa (Italy)	16:16 - 16:19
Total navigation spinal surgery Airo®3D: our experience M. Lopez Gutierrez (Spain)	16:19 - 16:22
Do eye movements compensate for visual field defects to potentially allow safe driving? F. Sharouf (United Kingdom)	16:22 - 16:25
Augmented reality assisted neurosurgical drain placement (ARANED) F. Van Gestel (Belgium)	16:25 - 16:28
Bedside Computed Tomography in traumatic brain injury: experience of 15000 consecutive cases in neurosurgery at a level 1 trauma centre in India D. Agrawal (India)	16:28 - 16:31
Employing multimodal man machine interfaces for spinal cord injury rehabilitation A. Athanasiou (Greece)	16:31 - 16:34
Impact of intra-operative CT scan in spine surgery. Applications, technical consideration and clinical implications F. Certo (Italy)	16:34 - 16:37
Identification of postoperative complications in neurosurgery using natural language processing and big data analysis G. Danilov (Russian Federation)	16:37 - 16:40

Scientific Programme

Vascular Neurosurgery
16:10 - 16:50

Poster Booth 2 - ePoster Area

ePoster Oral Presentation Vascular Neurosurgery

Chairs:

M. Javadpour (Ireland)
J. Beck (Germany)

Clasification fo Circle of Willis and their relation to development of aneurysm	16:10 - 16:13
R. Krzyżewski (Poland)	
High leukocyte count and risk of poor outcome after subarachnoid haemorrhage - a metaanalysis	16:13 - 16:16
R. Krzyżewski (Poland)	
Computer-aided analysis of basilar artery tortuosity: association with aneurysm development	16:16 - 16:19
R. Krzyżewski (Poland)	
Impact of direct bypass and indirect synangiosis on outcomes of combined revascularization for patients with Moyamoya disease	16:19 - 16:22
E. Shevchenko (Russian Federation)	
Microsurgical clipping as a safe, permanent and gentle solution of intracranial aneurysms	16:22 - 16:25
J. Sroubek (Czech Republic)	
Is it safe to be admitted on a weekend with a subarachnoid haemorrhage? Differences in the management of SAH associated with the day of admission	16:25 - 16:28
D. Vyas (United Kingdom)	
Internal maxillary artery bypass for the treatment of complex middle cerebral artery aneurysms	16:28 - 16:31
L. Wang (China)	
Validation of a therapy-oriented complication grading system in microsurgical treatment of unruptured intracranial aneurysms: a prospective population-based study	16:31 - 16:34
M. Sebök (Switzerland)	
Features of intracranial aneurysms treatment in Russia (a multicenter study)	16:34 - 16:37
T. Shatokhin (Russian Federation)	
A zero-dimensional model of the global hemodynamics in the circle of Willis	16:37 - 16:40
Y. Shen (Netherlands)	
Posterior fossa arteriovenous malformations- experience with 14 patients	16:40 - 16:43
M.V. Corniola (Switzerland)	

Scientific Programme

On invitation only
16:15 - 17:15

Liffey Meeting Room 2A

Vascular Section Meeting (on invitation only)

On invitation only
16:30 - 17:30

Liffey Meeting Room 1

Individual Membership Committee Meeting 2 (on invitation only)

Neurotrauma & Critical Care
16:50 - 18:30

Auditorium

Neurotrauma & Critical Care

Chairs:

N. Marklund (Sweden)

Global neurosurgery	16:50 - 17:00
Neurocritical care of spinal cord injury M. Papadopoulos (United Kingdom)	17:00 - 17:10
Biomarkers and their role in TBI P. Toth	17:10 - 17:20
Diffuse axonal injury for neurosurgeons N. Marklund (Sweden)	17:20 - 17:30
The CENTER-TBI Project: First results W. Peul (Netherlands)	17:30 - 17:40
Best Abstract in Neurotrauma: Serum miR-502: a sensitive biomarker in the diagnosis of concussion in patients with normal structural brain imaging D. Davies (United Kingdom)	17:40 - 17:50
Best Acta Neurochirurgica Paper of the Year in Neurotrauma: Spectrum of outcomes following traumatic brain injury—relationship between functional impairment and health-related quality of life A. Helmy	17:50 - 18:00
Neuroinflammation and Tau inclusions after both Traumatic Brain Injury (TBI) and repetitive Sport Related Concussions (SRC) F. Vedung (Sweden)	18:00 - 18:08
Streamlining the inpatient pathway for TBI - a novel, collaborative, multidisciplinary approach to managing moderate and severe traumatic brain injuries in a Major Trauma Centre S. Hasan (United Kingdom)	18:08 - 18:16
The effect of a tailored antibiotic prophylaxis on the infection rate of cranioplasty I. Paredes (Spain)	18:16 - 18:24

Scientific Programme

Pediatric Neurosurgery
16:50 - 18:20

Ecocem Room

Craniosynostosis

Chairs:

F. diRocco (France)
H. Delye (Netherlands)

Surgical management of craniosynostosis in TYA	16:50 - 17:05
C. Duncan (United Kingdom)	
Cognitive assessment in craniosynostosis	17:05 - 17:20
D. Chieffo (Italy)	
Q&A and chairman's conclusions on the topics above mentioned	17:20 - 17:30
F. diRocco (France)	
Shunting focus: a review of ventriculoatrial shunts in paediatric practice	17:30 - 17:38
I. Pilkington (Ireland)	
Long-term follow-up after vertexcraniectomy in young infants with sagittal suture synostosis	17:38 - 17:46
M. Millesi (Austria)	
The surgical management of epidermoid cysts of the cerebellopontine angle: volumetric extent of resection depending on the preoperative cyst volume and location	17:46 - 17:54
S.D. Adib (Germany)	
Surgical treatment for spinal lipomas in children	17:54 - 18:02
K.F. Venegas Hidalgo (Belarus)	
Case series of diastematomyelia, technical report	18:02 - 18:10
R. Guatta (Switzerland)	
Eleven-year review of management of subdural empyema in a regional paediatric neurosurgical unit	18:10 - 18:18
K.Z. Thant (United Kingdom)	

Other
16:50 - 18:20

Wicklow Hall 1

WFNS Global Neurosurgery Symposium

WFNS Global Neurosurgery Symposium

Chairs:

M.A. Arraez (Spain)

Overview global neurotrauma	16:50 - 17:05
F. Servadei (Italy)	
Importance of senior backup in the newly formed neurosurgical departments	17:05 - 17:20
Applying technology to assist LMIC in training and care. InterSurgeon.org	17:20 - 17:35
J. Johnston	

Scientific Programme

Bringing everything together J. Lafuente (Spain)	17:35 - 17:50
Discussion on the topics above mentioned	17:50 - 18:20

Vascular Neurosurgery
16:50 - 18:30

Wicklow Hall 2a

Vascular Parallel 1

Chairs:

M. Cenzato (Italy)
F. Ringel (Germany)

Perioperative risk assessment of carotid endarterectomy with symptomatic contralateral carotid occlusion V. Lukshin (Russian Federation)	16:50 - 16:58
Challenges in reconstructive neurosurgery of brachiocephalic arteries V. Lukshin (Russian Federation)	16:58 - 17:06
Surgery versus endovascular treatment for spinal dural artero-venous fistulas: a two-centre experience and literature review L. Zanin (Italy)	17:06 - 17:14
A single center's experience in the management of complex ICA aneurysms by endovascular surgery and supplemental bypass techniques P. Dodier (Austria)	17:14 - 17:22
Transdural ICG angiography (tICG) enhances novel software-derived workflow in EC-IC bypass surgery P. Dodier (Austria)	17:22 - 17:30
Extracranial-intracranial bypass surgery: a 38 year meta-analysis and systematic review of indications and complications A. Bernardo (United States of America)	17:30 - 17:38
Identifying and predicting hemorrhagic risks in adult patients with moyamoya disease: a deep-learning model Y. Lei (China)	17:38 - 17:46
Predictors of cognitive function in the acute phase after aneurysmal subarachnoid haemorrhage A. Sorteberg (Norway)	17:46 - 17:54
The post-aSAH syndrome - A self-reported cluster of symptoms in patients with aneurysmal subarachnoid hemorrhage A. Sorteberg (Norway)	17:54 - 18:02
What are the options for cardiac standstill during aneurysm surgery? A systematic review M.V. Corniola (Switzerland)	18:02 - 18:10
Altered CSF-metabolomics after aneurysmal SAH and delayed cerebral ischemia W.M. Ho (Austria)	18:10 - 18:18

Scientific Programme

Recent nationwide impact of mechanical thrombectomy on decompressive hemicraniectomy for acute ischemic stroke
M. Ottenhausen (Germany)

18:18 - 18:26

Spinal Neurosurgery
16:50 - 18:20

Wicklow Hall 2b

Spine Parallel 1

Chairs:

M. Ivanov (United Kingdom)
E. Shiban (Germany)

Chiari-1 malformation with syringomyelia: Glasgow's 5-year experience of surgical management

16:50 - 16:58

K. Agyemang (United Kingdom)

Proposal to establish a standardised perioperative pathway and a prospective registry for Chiari Malformation Type 1 patients

16:58 - 17:06

A. Hamdan (United Kingdom)

Individual surgical strategy for congenital atlantoaxial dislocation using posterior approach

17:06 - 17:14

R. Xie (China)

Erectile dysfunction in patients with cervical myelopathy

17:14 - 17:22

G. Alexiou (Greece)

Patient perspectives on degenerative cervical myelopathy - a semi-structured interview process to inform a core-outcomes initiative

17:22 - 17:30

D.Z. Khan (United Kingdom)

Surgical site infection after posterior spinal instrumentation in degenerative lumbar spine. A systematic review

17:30 - 17:38

S. Akhtar Khan (Pakistan)

The effect of bedrest after incidental durotomy in lumbar surgery

17:38 - 17:46

N. Koegl (Austria)

Increased accuracy of pedicle screw placement using augmented reality surgical navigation (ARSN) compared to free-hand technique

17:46 - 17:54

G. Burström (Sweden)

Short segment percutaneous pedicle screw fixation after direct spinal canal decompression in thoracolumbar burst fractures: an alternative option

17:54 - 18:02

J.K. Lee (Korea, Republic of)

Comparative study of percutaneous pedicle screw fixation after direct decompression with anterior column reconstruction for thoracolumbar burst fracture

18:02 - 18:10

S.K. Lee (Korea, Republic of)

A systematic review of complications and re-operation rates in patients undergoing surgery for spinal metastases at high volume centres

18:10 - 18:18

A.M. Tarawneh (United Kingdom)

Scientific Programme

Functional Neurosurgery
16:50 - 18:20

Wicklow Meeting Room 1

Functional Parallel 1

Chairs:

T. Aziz (United Kingdom)
K. Fountas (Greece)

Neurosurgery for spasticity M. Sindou (France)	16:50 - 17:00
Neuromodulation for pain J. Fitzgerald (United Kingdom)	17:00 - 17:10
Deep brain stimulation for disorders of consciousness D. Chudy (Croatia)	17:10 - 17:20
Awake or asleep surgery for DBS? Can microrecording under anesthesia give useful information? Z. Israel (Israel)	17:20 - 17:30
Microvascular decompression J. van Loon (Belgium)	17:30 - 17:40
Characterization of brain network supporting episodic memory in the absence of one medial temporal lobe C.K. Chung (Korea, Republic of)	17:40 - 17:48
The reappraisal of (sub) thalamotomy in the advanced treatment of tremor R.W. Pauwels (Netherlands)	17:48 - 17:56
Meta-analysis on oscillatory activity in the motor system of parkinson's disease and dystonia D. Piña-Fuentes (Netherlands)	17:56 - 18:04
The role of thalamotomy for treatment of tremor in the era of deep brain stimulation A. Khan (United Kingdom)	18:04 - 18:12
Clinical connectomics in functional neurosurgery M. Hart (United Kingdom)	18:12 - 18:20

Neuro-Oncology
16:50 - 18:20

Wicklow Meeting Room 3

Masterclass: Identifying the Tumour Margin: Tools & Tips

Chairs:

F. DiMeco (Italy)

Intraoperative ultrasound F. DiMeco (Italy)	16:50 - 17:05
Intraoperative MRI C. Senft (Germany)	17:05 - 17:20

Scientific Programme

Intraoperative endoscopy for gliomas	17:20 - 17:35
Intraoperative neuromonitoring R. Kilbride (Ireland)	17:35 - 17:50
Discussion on the topics above mentioned	17:50 - 18:00
Preoperative planning based on repetitive navigated transcranial magnetic stimulation (rTMS) improves surgical treatment of language-eloquent brain tumors A. Germanò (Italy)	18:00 - 18:08
Multimodal neuroimaging to assess supratentorial hemodynamic and crossed cerebellar diaschisis in high-grade gliomas M. Sebök (Switzerland)	18:08 - 18:16

Spine
16:50 - 18:20

Wicklow Meeting Room 4

Masterclass: Spine 2

Chairs:

A. Parajon (Spain)
D. Rawluk

Moral deliberations in craniocervical spinal cord trauma W. Peul (Netherlands)	16:50 - 17:05
Management of large calcified thoracic disc ant vs post M. Coppes (Netherlands)	17:05 - 17:20
Getting a spinal product to market C. Bolger (Ireland)	17:20 - 17:35
Tubular decompression: How I do it A. Parajon (Spain)	17:35 - 17:50
Association of neurologic deficits with surgical outcomes and hrqol following treatment for metastatic epidural spinal cord compression O. Barzilai (United States of America)	17:50 - 17:58
Validation of the severity stratification for the five-repetition sit-to-stand test: quantifying objective functional impairment in lumbar degenerative disease based on data from two prospective studies A.M. Klukowska (Netherlands)	17:58 - 18:06
Postoperative surgical site infection in patients with posterior (thoraco-)lumbar instrumentation: management and outcome in 92 patients A.-K. Hickmann (Switzerland)	18:06 - 18:14

Scientific Programme

Radiosurgery
16:50 - 18:20

Wicklow Meeting Room 5

Masterclass: Radiosurgery

Chairs:

K. Sallabanda (Spain)

M.. Radatz (United Kingdom)

Treatment of brain metastases: Recent developments	16:50 - 17:05
B. Lippitz (Germany)	
Radiosurgery of craniopharyngioma	17:05 - 17:20
A. Golanov (Russian Federation)	
Radiosurgery of jugular tumours	17:20 - 17:35
M.. Radatz (United Kingdom)	
Spinal radiosurgical indications	17:35 - 17:50
K. Sallabanda (Spain)	
Radiosurgical functional indications	17:50 - 18:05
R. Martinez (Spain)	
Discussion on the topics above mentioned	18:05 - 18:20

Scientific Programme

Thursday, 26 September 2019

Pediatric Neurosurgery
08:30 - 10:00

Auditorium

Low Grade Glioma Pediatric vs. Adult Patients

Chairs:

J. Skjoeth Rasmussen (Denmark)
M. Messing-Jünger (Germany)

LGG in kids - surgical perspectives T. Santarius (United Kingdom)	08:30 - 08:40
LGG in adults - adult perspectives K. van Baarsen (United Kingdom)	08:40 - 08:50
LGG in eloquent areas; considerations in pediatric vs. adult patients T. Santarius (United Kingdom)	08:50 - 09:00
LGG and epilepsy in children and adults	09:00 - 09:10
Fetal brain tumors: what to do? A challenge from diagnosis to treatment. A multicentric study A. Rolland (France)	09:10 - 09:18
5-ALA fluorescence guided surgery in pediatric brain tumors - a systematic review M. Schwake (Germany)	09:18 - 09:26
The work of the primary center of children's stroke in a multidisciplinary hospital B. Oleynikov (Russian Federation)	09:26 - 09:34
Childhood medulloblastoma: survival and prognostic factors in children treated in Southern Brazil a single center experience from 1995 to 2016 A. Oviedova (United Kingdom)	09:34 - 09:42
Acute cerebellitis in children. A case series of variable clinical entities H. Soleiman (United Kingdom)	09:42 - 09:50
Best Acta Neurochirurgica Paper of the Year in Pediatrics: Pre-operative neutrophil count and neutrophil-lymphocyte count ratio (NLCR) in predicting the histological grade of paediatric brain tumours: a preliminary study P. Chumas	09:50 - 10:00

Peripheral NV
08:30 - 10:00

Ecocem Room

Peripheral Nerve Surgery - Basic and Innovative

Chairs:

A. Dubuisson (Belgium)
C. Matthies (Germany)

Scientific Programme

The role of targeted fascicular biopsy of idiopathic nerve lesions R. Spinner (United States of America)	08:30 - 08:40
Novel uses of nerve transfers (Spinal cord injury, stroke, targeted muscle reinnervation) T. Wilson (United States of America)	08:40 - 08:50
Prevention of malignancy in NF-associated peripheral nerve tumors D. Garozzo	08:50 - 09:00
Neuromodulation in neuropathic pain - State of the art	09:00 - 09:10
Central consequences of peripheral nerve injury D. Weinert (Germany)	09:10 - 09:20
The role of neuroprosthetics, stem-cell transplantation and neural interface technology in peripheral nerve surgery D. Barone (United Kingdom)	09:20 - 09:30
Bioelectric therapy to enhance nerve regeneration W. Ray (United States of America)	09:30 - 09:40
Q&A on the topics above mentioned	09:40 - 09:50
Peripheral nerve tumors - how to find a consensus on guidelines for diagnosis and treatment C. Matthies (Germany)	09:50 - 09:58

Radiosurgery
08:30 - 10:00

Wicklow Hall 1

Radiosurgery Parallel 1

Chairs:

P. Picozzi (Italy)
D. Rawluk

2-stage radiosurgery in the management of large brain metastasis K. Sallabanda (Spain)	08:30 - 08:40
The effects of ITP on newly developed pain in patients with CRPS treated by SCS S.Y. Yang (Korea, Republic of)	08:40 - 08:48
Bilateral stimulation of subthalamic nuclei in parkinson's disease: accuracy of stereotaxic mri targeting G. Nohra (Lebanon)	08:48 - 08:56
Trigeminal neuralgia and multiple sclerosis V. Fedirko (Ukraine)	08:56 - 09:04
Postoperative pain treatment with or without a structured pain management algorithm following spine surgery: a comparative study S. Motov (Germany)	09:04 - 09:12

Scientific Programme

Multimodal management of malignant meningiomas followed by systemic diffusion: the role of radiosurgery in long-term local control P. Picozzi (Italy)	09:12 - 09:20
Intraoperative localisation of difficult epileptic zone margins A. Pichierri (United Kingdom)	09:20 - 09:28
Mild malformation of cortical development with oligodendroglial hyperplasia in frontal lobe epilepsy (MOGHE): a case report A. Oostra (Greece)	09:28 - 09:36
Electrode malfunction with spontaneous resolution in a case of PKAN-related severe dystonia D. Matos (Portugal)	09:36 - 09:44

Spinal Neurosurgery
08:30 - 10:00

Wicklow Hall 2a

Debates in Spine

Chairs:

B. Depreitere (Belgium)
D. O'Brien (Ireland)

Lumbar corpectomy anterior approach is superior to posterior C. Thomé (Austria) B. Santiago (Portugal)	08:30 - 08:50
Lumbar corpectomy anterior approach is superior to posterior - Q&A C. Thomé (Austria) B. Santiago (Portugal)	08:50 - 09:00
Posterior surgery is not necessary for cervical degenerative disease B. Depreitere (Belgium)	09:00 - 09:20
Posterior surgery is not necessary for cervical degenerative disease - Q&A B. Depreitere (Belgium)	09:20 - 09:30
Pitfalls of spine surgery in low to developing countries J. Lafuente (Spain)	09:30 - 09:40
Formation of somatosensory detourcircuits after spinalcord injury in mice J. Schwarting (Germany)	09:40 - 09:48
Robot assisted spinal surgery using augmented reality navigation in a hybrid operating room: a feasibility and accuracy study G. Burström (Sweden)	09:48 - 09:56
Nuances of MIS for IDEM tumors S.K. Singh (India)	09:56 - 10:04

Scientific Programme

Other
08:30 - 10:00

Wicklow Hall 2b

AANS

Chairs:

G. Rosseau (United States of America)

Nerve transfers for the treatment of chronic cervical spinal cord injury W. Ray (United States of America)	08:30 - 08:42
Diagnosis and management of craniocervical vascular injuries in blunt trauma L. Da Costa (Canada)	08:42 - 08:54
Simulation in neurosurgical education G. Rosseau (United States of America)	08:54 - 09:06
Advances in lateral approaches to the spine D. Fahim (United States of America)	09:06 - 09:18
The internal maxillary artery for ECIC Bypass A. Dehdashti (United States of America)	09:18 - 09:30
Cortical Screws: a Gateway MIS TLIF Technique D. Refai (United States of America)	09:30 - 09:42
Minimally invasive TLIF options for lumbar spondylolisthesis G. Tender (United States of America)	09:42 - 09:54
Discussion on the topics mentioned above	09:54 - 09:59

Vascular Neurosurgery
08:30 - 10:00

Wicklow Meeting Room 1

Vascular Parallel 2

Chairs:

P. Vajkoczy (Germany)
M. Javadpour (Ireland)

Prehemorrhage antiplatelet use in aneurysmal subarachnoid haemorrhage and its impact on clinical outcome M. Sebök (Switzerland)	08:30 - 08:38
Can induced hypertension ameliorate perfusion deficits and prevent infarction in patients with aneurysmal subarachnoid hemorrhage? S. Hernandez Duran (Germany)	08:38 - 08:46
The Sheffield subarachnoid haemorrhage score to predict ventriculoperitoneal shunt insertion for chronic hydrocephalus after an aneurysmal subarachnoid haemorrhage D. Vyas (United Kingdom)	08:46 - 08:54
Management of flow-related aneurysms associated with brain AVMs Z. Millar (United Kingdom)	08:54 - 09:02

Scientific Programme

Long-term health-related quality of life in 262 patients with brain arteriovenous malformation A. Pohjola (Finland)	09:02 - 09:10
Multi-modal information guided bypass surgery: a modified clinical technique for ischemic cerebral vascular disease Y. Gu (China)	09:10 - 09:18
Multimodality management of pediatric intracranial arteriovenous malformations (AVM) Y. Orz (Saudi Arabia)	09:18 - 09:26
Clinical outcome after decompressive craniectomy in patients with malignant brain infarction M. Stein (Germany)	09:26 - 09:34
Surgical treatment of posterior communicating artery aneurysms: hints and precautions for young cerebrovascular surgeons A. Albanese (Italy)	09:34 - 09:42
Multidisciplinary management of complex cranial dural arteriovenous fistulas in the endovascular era: the role and risk of multimodality care L. Da Costa (Canada)	09:42 - 09:50

Neuro-Oncology
08:30 - 10:00

Wicklow Meeting Room 3

Masterclass: How I do it

Chairs:

P. Schucht (Switzerland)
K. O'Neill

Meningioma surgery T. Meling (Switzerland)	08:30 - 08:45
Monitoring & mapping A. Raabe (Switzerland)	08:45 - 09:00
Awake craniotomy H. Duffau (France)	09:00 - 09:15
Metabolic imaging J.C. Tonn (Germany)	09:15 - 09:30
Discussion on the topics above mentioned	09:30 - 09:40
Endoscopic surgery of the orbit A. Kalandari (Russian Federation)	09:40 - 09:48
A simple grading scale to predict tumor progression in skull base chondrosarcoma P. Gardner (United States of America)	09:48 - 09:56

Scientific Programme

Limitations of MEP monitoring in predicting paresis during brain tumor surgery in motor areas	09:56 - 10:04
D. Giampiccolo (Italy)	

Neurotrauma & Critical Care
08:30 - 10:00

Wicklow Meeting Room 4

Masterclass: Pediatric TBI

Chairs:

F. Servadei (Italy)
N. Marklund (Sweden)

Severe TBI	08:30 - 08:45
N. Marklund (Sweden)	
Ping-pong fracture	08:45 - 09:00
A. Peraud (Germany)	
Non-accidental injury in children	09:00 - 09:15
P.D. Adelson (United States of America)	
Neurocritical care	09:15 - 09:30
P. Tsitsopoulos (Greece)	
Pediatric TBI in LMIC	09:30 - 09:45
B. Harrington (South Africa)	
Discussion on the topics above mentioned	09:45 - 09:55

Skull Base
08:30 - 10:00

Wicklow Meeting Room 5

Masterclass: Skull Base 1

Chairs:

R. Nair (United Kingdom)
I. Kanaan (Saudi Arabia)

Far lateral approaches to CVJ lesions	08:30 - 08:45
N. Thomas (United Kingdom)	
Endoscopic management of large pituitary tumours	08:45 - 09:00
H. Schroeder (Germany)	
Infratentorial lateral supracerebellar approach	09:00 - 09:15
V. Beneš (Czech Republic)	
Transbasal resections	09:15 - 09:30
T. Meling (Switzerland)	
Discussion on the topics above mentioned	09:30 - 09:35

Scientific Programme

Endoscopic endonasal and supraorbital keyhole surgery for management of anterior skull base meningiomas: overcoming barriers between above and below approaches after 15 years of experience	09:35 - 09:43
D. Nasi (Italy)	
Olfactory groove meningiomas: comparison of extent of frontal lobe changes after lateral and bifrontal approaches	09:43 - 09:51
D. Catapano (Italy)	
How common is long term sick leave after meningioma surgery? Results from a Swedish nationwide study	09:51 - 09:59
E. Thurin (Sweden)	

On invitation only
09:00 - 09:40

Liffey Meeting Room 1

Editorial Board Meeting of Neurosurgical Review (on invitation only)

On invitation only
09:30 - 11:00

Liffey Meeting Room 2A

Neuropublishing Initiative (on invitation only)

Global Neurosurgery
10:00 - 10:40

Poster Booth 1 - ePoster Area

ePoster Oral Presentation Ethics, History, Education & Global Neurosurgery

Chairs:

M. Broekman (Netherlands)

Quality-adjusted life years in glioma patients: a systematic review on currently available data and the lack of evidence-based utilities	10:00 - 10:03
V. Butenschoen (Germany)	
Who was Axel Perneczky? A curriculum dedicated to MIN	10:03 - 10:06
K. Resch (Austria)	
Unnecessary diagnostics in neurosurgery: finding the ethical balance	10:06 - 10:09
A.F.C. Hulsbergen (United States of America)	
The draughtsmanship in Norman Dott's (1897-1973) medical illustrations	10:09 - 10:12
E. Hayes (United Kingdom)	
Female neurosurgeons in Europe - on a prevailing glass ceiling	10:15 - 10:18
S. Hernandez Duran (Germany)	
Training the trainers: contemporary programs for expanding the global neurosurgery workforce	10:18 - 10:21
G. Rosseau (United States of America)	

Scientific Programme

Cerebral aspergilloma - a modern case series J. Gempt (Germany)	10:21 - 10:24
The optimal suture technique and substitute for the dura closing: an in-vitro model F.M. Ebel (Switzerland)	10:24 - 10:27
Reproductive disorders and the ability to preserve the fertility of men with benign and malignant brain tumors L. Astaf'eva (Russian Federation)	10:27 - 10:30

Technology
10:00 - 10:40

Poster Booth 2 - ePoster Area

ePoster Oral Presentation Technology & Innovations

Chairs:

C. Moran (Ireland)

Cortical intraoperative EEG in awake tumor surgery J. Gempt (Germany)	10:00 - 10:03
AgVA - Worlds smallest and cheapest full featured ventilator - an Indian Innovation D. Agrawal (India)	10:03 - 10:06
Automatic, radiation-free detection of craniosynostosis with deep learning prediction models based on 3D stereofotogrammetry H. Delye (Netherlands)	10:06 - 10:09
Intraoperative 3D rotational fluoroscopy: a usefull tool for occlusion control in patients with vascular pathologies? T. Linsenmann (Germany)	10:09 - 10:12
Development and validation of machine learning-based preoperative predictive analytics for lumbar spinal stenosis M.L. Schröder (Netherlands)	10:12 - 10:15
A systematic review and meta-analysis of perioperative parameters in robot-guided, navigated, and freehand thoracolumbar pedicle screw instrumentation A.M. Klukowska (Netherlands)	10:15 - 10:18
Development of a 3D printed glioma model X. Zhang (China)	10:18 - 10:21
Moving the neurosurgical frontiers with artificial intelligence: the era of machine learning J. Golubovic (Serbia)	10:21 - 10:24

On invitation only
10:00 - 11:30

Liffey Meeting Room 1

UEMS SNS Meeting (on invitation only)

Scientific Programme

General
10:40 - 11:20

Auditorium

Special Guest

Chairs:

K. Schaller (Switzerland)
J. Lafuente (Spain)

Pathophysiology of concussion: Implications for treatment

10:40 - 11:20

B. Willer (United States of America)

On invitation only
11:00 - 12:30

Liffey Meeting Room 2A

Functional Section Meeting (on invitation only)

Vascular Neurosurgery
11:20 - 13:00

Auditorium

Management of Unruptured Intracranial Aneurysms

Chairs:

K. Schaller (Switzerland)
M. Javadpour (Ireland)

The natural history of unruptured aneurysms

11:20 - 11:35

A. Pasqualin (Italy)

Modulation of risk factors (including drug therapy)

11:35 - 11:50

N. Etminan (Germany)

Clip vs coil

11:50 - 12:05

M. Tymianski (Canada)

Best Abstract in Vascular Neurosurgery: Surgical treatment of unruptured brain AVMs: short and long term results

12:05 - 12:15

V. Gorozhanin (Russian Federation)

Best Acta Neurochirurgica Paper of the Year in Vascular Neurosurgery: Relation of gray-white matter ratio with long-term cognitive functions and quality of life in patients with mild to moderate aneurysmal subarachnoid hemorrhage: a prospective observational study

12:15 - 12:25

Q&A on the topics above mentioned

12:25 - 12:30

Neurocognitive and psychological assessment after treatment of unruptured intracranial aneurysms

12:30 - 12:38

A. Wagner (Germany)

Switching from microscope to High-Definition 3-Dimensional exoscope in cerebrovascular surgery

12:38 - 12:46

M. Cenzato (Italy)

Scientific Programme

On invitation only
11:30 - 13:00

Liffey Meeting Room 1

JRAAC Meeting (on invitation only)

Neurotrauma & Critical Care
13:00 - 14:30

Wicklow Meeting Room 4

Masterclass: Problems and their Solutions in Chronic Subdural Hematoma

Chairs:

P. Tsitsopoulos (Greece)
A. Belli (United Kingdom)

Recent stents A. Koliass (United Kingdom)	13:00 - 13:15
Coagulopathy W. Peul (Netherlands)	13:15 - 13:30
Bilateral A. Lagares (Spain)	13:30 - 13:45
Recurrent	13:45 - 14:00
Recurring chronic subdural hematoma A. Belli (United Kingdom)	14:00 - 14:15
Subacute SDH- to wait or to operate early P. Tsitsopoulos (Greece)	14:15 - 14:30

Neuro-Oncology
13:00 - 14:30

Poster Booth 1 - ePoster Area

ePoster Oral Presentation Neuro-Oncology II

Chairs:

R. Soffietti (Italy)

Identification of high-risk atypical meningiomas by using semantic and radiomic characteristics D. Kalasauskas (Germany)	13:00 - 13:03
Posterior fossa lesion resection and post-operative hydrocephalus: a multicenter retrospective study for risk factor identification and state-of-art treatment methods A. Moiraghi (Switzerland)	13:03 - 13:06
10 years of experience in intraoperative MRI in pituitary surgery A. Pala (Germany)	13:06 - 13:09
Quality of life following endoscopic endonasal surgery for pituitary macroadenoma Y. Sufaro (Israel)	13:09 - 13:12

Scientific Programme

Rhinological outcome in endoscopic transnasal skull base surgery - a prospective study J. Conrad (Germany)	13:12 - 13:15
Fractionated Stereotactic Radiotherapy (FSRT) versus CyberKnife-Based hypofractionation in skull base meningioma A. Conti (Italy)	13:15 - 13:18
Assessing the rhinological outcome and surgical footprint of the chopstick technique in endoscopic transsphenoidal pituitary adenoma surgery C. Serra (Switzerland)	13:18 - 13:21
The entity of cord compression as a predictor of outcome in spinal meningiomas surgery: preliminary results of a retrospective multicentric study A. Moiraghi (Switzerland)	13:21 - 13:24
Comparison of quality of life and emotional burden after transnasal versus transcranial anterior skull base surgery A. Wagner (Germany)	13:24 - 13:27
Vertebrobasilar artery encasement by skullbase chordoma: surgical outcome and management strategies E. Voormolen (France)	13:27 - 13:30
Augmented Reality with SurgicalTheatre Endoscope Surgical Navigation Advanced Platform (EndoSNAP) in endoscopic transsphenoidal skull base surgery: a safety and feasibility preliminary study E. Gambatesa (Italy)	13:30 - 13:33
Rates of tumour control after conservative management of pituitary apoplexy S. Khawari (United Kingdom)	13:33 - 13:36
Giant pituitary adenomas: clinical characteristics and surgical results. Presentation of the first large UK series of endoscopically operated giant adenomas and review of the literature R. Visagan (United Kingdom)	13:36 - 13:39
Paramedian lumbar endoscopic spinal canal fragmentectomies without bone removal - long term follow-up D. Ditsworth (United States of America)	13:39 - 13:42
Spontaneous skull base encephaloceles and fistulas: combined endonasal and endovascular techniques D. de Lara (Brazil)	13:42 - 13:45
Utility of a nasal access guide in endoscopic endonasal skull base surgery: assessment of use during a cadaveric dissection course P. Gardner (United States of America)	13:45 - 13:48
Step-wise algorithm for skull base reconstruction in endoscopic endonasal surgery: from the simple to the complex P. Gardner (United States of America)	13:48 - 13:51
Identifying novel molecular differences between WHO grade I and II meningiomas A. Sofela (United Kingdom)	13:51 - 13:54

Scientific Programme

Pre and intraoperative mapping for lesions in primary motor cortex: decision making process in surgical resection	13:54 - 13:57
J. Lavrador (United Kingdom)	
The operative advantages of 4K ultra-high definition endoscope in pituitary surgery: analysis of a comparative institutional case series	13:57 - 14:00
P.P. Mattogno (Italy)	
Mini-invasive unilateral approach for removal of lumbar ependymomas	14:00 - 14:03
S. Telera (Italy)	
Prevalence and clinical implications of the primitive trigeminal artery and its variants	14:03 - 14:06
K. Brzegowy (Poland)	
Expanded endoscopic endonasal approach for orbital apex decompression	14:06 - 14:09
K. Reddy (Canada)	

Spinal Neurosurgery
13:00 - 14:30

Poster Booth 2 - ePoster Area

ePoster Oral Presentation Spinal Neurosurgery

Chairs:

C. Thomé (Austria)

Sacroiliac joint fusion with triangular titanium implants results in significant improvement of pain and disability	13:00 - 13:03
S. Kostadinov (Bulgaria)	
Diffuse reflectance spectroscopy reliably identifies the cortical bone three millimeters before breach in spinal fixation surgery	13:03 - 13:06
G. Burström (Sweden)	
Comparison of surgical versus intradiscal ozone treatment of sciatica due to lumbar disc herniation	13:06 - 13:09
M. Noor Ul Huda (Pakistan)	
Objective measures of outcome and functional impairment for degenerative diseases of the lumbar spine - systematic review of the literature	13:09 - 13:12
M. Stienen (Switzerland)	
Reliable assessment of objective functional impairment (OFI) using five-repetition sit-to-stand testing (5R-STs) in an unsupervised, at-home setting: a prospective study in degenerative lumbar spinal patients	13:12 - 13:15
M.L. Schröder (Netherlands)	
Anterior location, sagittal malalignment and disc height loss below operated level increases cage subsidence - A review of 77 patients undergoing ACDF	13:15 - 13:18
A. MacCormick (United Kingdom)	

Scientific Programme

Percutaneous vertebroplasty in pathological compression and traumatic vertebral fractures (a single center study) J. Mohmand (Pakistan)	13:18 - 13:21
Overcoming fracture progression in complicated Kümmell's disease: feasibility of single-stage transpedicular vertebral body reconstruction S.-H. Kim (Korea, Republic of)	13:21 - 13:24
Submandibular approach for single-stage craniovertebral junction ventral decompression and stabilization: a preliminary cadaveric study of technical feasibility V. Stumpo (Italy)	13:24 - 13:27
Multidisciplinary management of benign aggressive vertebral hemangiomas in a hybrid room facility: a case-series M.V. Corniola (Switzerland)	13:27 - 13:30
Safety and efficacy of hybrid surgery for multilevel cervical degenerative disc disease versus anterior cervical discectomy and fusion or cervical disc arthroplasty: systematic-review and meta-analysis M. Hollyer (United Kingdom)	13:30 - 13:33
Does pre-operative multifidus morphology on magnetic-resonance imaging predict clinical outcomes in adults with degenerative lumbar spine disease following surgical treatment? A systematic review P.C. Copley (United Kingdom)	13:33 - 13:36
Macroautophagy is inhibited in human patients with degenerative cervical myelopathy S. Smith (United Kingdom)	13:36 - 13:39
Understanding cauda equina syndrome: a UK multicentre prospective observational cohort study J. Woodfield (United Kingdom)	13:39 - 13:42
A retrospective analysis of pedicle screw accuracy in minimally invasive lumbar spinal surgery M. McLarnon (United Kingdom)	13:45 - 13:48
Feasibility of pedicle screw fixation in lumbar fusion surgery T. Iizuka (Japan)	13:48 - 13:51
Annular repairment with Autologous Conditioned Plasma biological therapy for the treatment of lumbar disc herniation E. Song (China)	13:51 - 13:54
The European Robotic Spinal Instrumentation (EUROSPIN) study: design of a multicenter, pragmatic, controlled trial comparing robot-guided, navigated, and freehand thoracolumbar fusion surgery V.E. Staartjes (Switzerland)	13:54 - 13:57
Quality of life and psychological burden after resection of intraspinal neoplasms A. Wagner (Germany)	13:57 - 14:00

Scientific Programme

On invitation only
13:00 - 14:00

Liffey Meeting Room 2A

Ethico Legal Committee Meeting (on invitation only)

On invitation only
13:00 - 15:00

Liffey Meeting Room 1

Global Education Forum (on invitation only)

Industry Symposium
13:15 - 14:15

Wicklow Hall 1

Industry Sponsored Symposium

Industry Symposium
13:15 - 14:15

Wicklow Meeting Room 3

Industry Sponsored Workshop

On invitation only
14:00 - 17:00

Liffey Meeting Room 2A

Research Committee (on invitation only)

Skull Base
14:30 - 16:10

Auditorium

Anterolateral Skull Base

Chairs:

P.-H. Roche (France)
N. Mendoza (United Kingdom)

CPA and Petroclival epidermoid cysts: long term control and functional results	14:30 - 14:45
P.-H. Roche (France)	
Approach to petrous apex lesions	14:45 - 15:00
N. Thomas (United Kingdom)	
Modern skull base surgery: The multiportal approach	15:00 - 15:15
A.S. Youssef (United States of America)	
Transplanar approach to skull base lesions	15:15 - 15:30
R. Nair (United Kingdom)	

Scientific Programme

The use of AI in neurosurgery triage and follow up S. Jeyaretna (United Kingdom)	15:30 - 15:45
Best Abstract in Skull Base: Clinical course after operative resection of sphenoclinoidal meningioma: a single center retrospective study C. Flueh (Germany)	15:45 - 15:55
Best Acta Neurochirurgica Paper of the Year in Skull Base: The endoscopic endonasal approach is not superior to the microscopic transcranial approach for anterior skull base meningiomas—a meta-analysis A. Zamanipoor (Netherlands)	15:55 - 16:05

On invitation only
15:30 - 17:00

Liffey Meeting Room 1

Editorial Board Meeting of Acta Neurochirurgica (on invitation only)

Radiosurgery
16:10 - 16:50

Poster Booth 1 - ePoster Area

ePoster Oral Presentation Radiosurgery

Chairs:

K. Fountas (Greece)

Bilateral subcortical peri-electrode edema following GPi Deep Brain Stimulation surgery: case report D. Matos (Portugal)	16:10 - 16:13
Safety and efficacy of primary dose fractionated gamma knife radiosurgery for large volume glomus jugulare tumours M. Tripathi (India)	16:13 - 16:16
Combined hemifacial spasm and progressive hearing loss treated by MVD of AICA crossing between VII/VIII nerves D. Matos (Portugal)	16:16 - 16:19
Lesional epilepsy surgery in brain mapping era (overcoming challenges in developing countries) A. Morsy (Egypt)	16:19 - 16:22
Febrile seizures in epileptosurgery patients treated for mesiotemporal epilepsy: predictive factor for hippocampal sclerosis development? E. Brichtova (Czech Republic)	16:22 - 16:25
Microvascular decompression for classic trigeminal neuralgia recurrence after percutaneous rhizotomy procedures V. Fedirko (Ukraine)	16:25 - 16:28
Surgical strategies to minimize morbidity in deep brain stimulation in a series of 240 DBS procedures C. Matthies (Germany)	16:28 - 16:31

Scientific Programme

Gamma knife radiosurgery (GKRS) for non-cancer refractory pain: early results of a single center series	16:31 - 16:34
P. Picozzi (Italy)	
Reduced excitability and altered differentiation of transplanted hESC-derived MGE progenitors via IL-1β in inflamed epileptogenic human tissue	16:34 - 16:37
Y. Zhu (United Kingdom)	
Cumulative intracranial tumor volume prognostic assessment (CITVPA): a new predicting score index for patients affected by brain metastases treated with gamma knife stereotactic radiosurgery	16:37 - 16:40
C.A. Donofrio (Italy)	
Dilemmas in early implantation of vagus nerve stimulation in patients with drug resistant epilepsy and depression - our experience	16:40 - 16:43
J. Nemir (Croatia)	

Neuro-Oncology
16:10 - 16:50

Poster Booth 2 - ePoster Area

ePoster Oral Presentation Neuro-Oncology I

Chairs:

F. DiMeco (Italy)
F. Sala (Italy)

The incidence and impact of post-operative stroke in surgery for low-grade glioma	16:10 - 16:13
R. Grossman	
Transsylvian surgery of the insular glial tumors	16:13 - 16:16
A. Bykanov (Russian Federation)	
Intraoperative use and benefits of tractography in awake surgery patients	16:16 - 16:19
C. de Quintana-Schmidt (Spain)	
Patient reported experience measures in navigated transcranial magnetic stimulation - preliminary results	16:19 - 16:22
J. Lavrador (United Kingdom)	
Surgical management of periventricular gliomas: grading system to preoperative assess of resectability	16:22 - 16:25
A. Rozumenko (Ukraine)	
The expression of the intercellular communication proteins GAP43 and Cx43 in diffuse and anaplastic gliomas	16:25 - 16:28
A. Krigers (Austria)	
Preoperative stereotactic radiosurgery of brain metastases	16:28 - 16:31
A. Golanov (Russian Federation)	
Role of brain shift in the accuracy of neuronavigation systems during brain tumor surgery	16:31 - 16:34
G. Toccaceli (Italy)	

Scientific Programme

First-in-human real-time MRI guided intra-arterial delivery of drug in patient with brain tumor K. Kostyra (Poland)	16:34 - 16:37
Cortical and subcortical representation of the intercostal muscles: Is it time to revise the motor homunculus? J. Lavrador (United Kingdom)	16:37 - 16:40
Improving patient assessment in Neuro-oncology: Cut-offs for patient and clinician reported outcomes indicating need for support or increased distress - results of multicenter observational studies A.-K. Hickmann (Switzerland)	16:40 - 16:43

Other
16:50 - 17:40

Auditorium

EANS/CNS: Future Proofing Vascular Neurosurgery

Chairs:

C. Schirmer (United States of America)
F. Munoz (Spain)

Stroke is a surgical disease P. Jabbour (United States of America)	16:50 - 17:00
Collaboration with other specialties in the endovascular arena B. Welch (United States of America)	17:00 - 17:10
Training paradigms for endovascular neurosurgeons B. Jankowitz (United States of America)	17:10 - 17:20
Building a system of care C. Schirmer (United States of America)	17:20 - 17:30
Q&A on the topics above mentioned	17:30 - 17:40

Other
16:50 - 17:30

Ecocem Room

CSRS

Chairs:

D. Jaskolski (Poland)

Spinal alignment in cervical degenerative myelopathy E. Tessitore (Switzerland)	16:50 - 17:00
The Leuven Bryan disc experience and long term data B. Depreitere (Belgium)	17:00 - 17:10
MIS in the cervical spine C. Thomé (Austria)	17:10 - 17:20

Scientific Programme

Association between inflammation, modic and clinical outcome	17:20 - 17:30
N. Djuric (Netherlands)	

Other
16:50 - 18:20

Wicklow Hall 1

Ethics

Chairs:

T. Mathiesen (Denmark)
S. Honeybul (Australia)

Legal and ethical aspects of the introduction of novel devices	16:50 - 17:05
N. Balak (Turkey)	
Marketing novel devices	17:05 - 17:20
S. Honeybul (Australia)	
Ethics and digital phenotyping/ eHealth solutions	17:20 - 17:35
M. Broekman (Netherlands)	
Value of our treatments	17:35 - 17:50
Discussion on the topics above mentioned	17:50 - 18:20
N. Balak (Turkey)	
S. Honeybul (Australia)	
M. Broekman (Netherlands)	

Skull Base
16:50 - 18:20

Wicklow Hall 2a

Surgical Management of Pituitary Tumours

Chairs:

S. Sharif (Pakistan)
H. Schroeder (Germany)

Staged Transsphenoidal and Transcranial Surgeries in Giant / Complex Pituitary Tumors	16:50 - 17:00
M.K. Baskaya (United States of America)	
Giant Invasive Pituitary Adenomas: Transcranial or Transsphenoidal?	17:00 - 17:10
K. Turel (India)	
Extent of resection in meningioma: predictive factors and clinical implications	17:10 - 17:18
T. Meling (Switzerland)	
Nervus intermedius outcomes following vestibular schwannoma surgery and radiosurgery- A single institution experience and systematic review with meta-analysis	17:18 - 17:26
A.S. Youssef (United States of America)	

Scientific Programme

The prognosis and molecular profile of diffuse midline glioma with H3 K27M mutant	17:26 - 17:34
C.K. Chung (Korea, Republic of)	
Combined treatment including Stereotactic Irradiation (SI) in childhood onset craniopharyngioma	17:34 - 17:42
A. Golanov (Russian Federation)	
Extension pathways of pituitary adenomas with cavernous sinus involvement and its surgical approaches	17:42 - 17:50
S. Ceylan (Turkey)	
Extended endoscopic approach for recurrent craniopharyngiomas	17:50 - 17:58
I. Anik (Turkey)	
Recovery course of conduction and remyelination of optic nerves after extended endoscopic approach for macroadenomas: quantitative assesment with Diffusion Tensor Imaging (DTI)	17:58 - 18:06
I. Anik (Turkey)	
Mental disorders in patients after removal of craniopharyngioma	18:06 - 18:14
Y. Sidneva (Russian Federation)	

Neurotrauma & Critical Care
16:50 - 18:20

Wicklow Hall 2b

Surgical Management of Traumatic Brain Injury

Chairs:

W. Peul (Netherlands)
Y. Latyshev (Russian Federation)

Pre-hospital brain injury	16:50 - 17:00
M. Wilson (United Kingdom)	
Penetrating TBI- lessons learnt in a high-volume center	17:00 - 17:10
B. Harrington (South Africa)	
Complex skull fractures and their repair	17:10 - 17:20
TBI in LMIC	17:20 - 17:30
F. Servadei (Italy)	
Neurosurgery in the extremes of age	17:30 - 17:40
A. Lagares (Spain)	
Outcome after mild traumatic brain injury	17:40 - 17:50
Mild hyperventilation in traumatic brain injury - relation to pressure autoregulation, cerebral energy metabolism and clinical outcome	17:50 - 17:58
E. Rostami (Sweden)	
Civilian and military gunshot head injury - series of 81 patients	17:58 - 18:06
M. Májovský (Czech Republic)	

Scientific Programme

Intracranial pressure assessment after traumatic brain injury based on computed tomography texture analysis-results from CENTER-TBI group J. Golubovic (Serbia)	18:06 - 18:14
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Neuro-Oncology
16:50 - 18:20

Wicklow Meeting Room 1

Cerebral Metastases

Surgery M. Westphal (Germany)	16:50 - 17:00
Radiotherapy	17:00 - 17:10
Chemotherapy and targeted therapies R. Soffietti (Italy)	17:10 - 17:20
WHO grade I Meningiomas: classification-tree for predictive factors of survival J.-M. Lemée (Switzerland)	17:20 - 17:28
Repeated gammaknife radiosurgery for vestibular schwannomas A. Balossier (France)	17:28 - 17:36
Advances in navigation linked heads-up display in intracranial surgery: incorporating augmented reality into daily neurosurgical workflow H. Oemke Madarash (United States of America)	17:36 - 17:44
Endoscopic transsphenoidal pituitary surgery: a single center 14-year experience J. Conrad (Germany)	17:44 - 17:52
Biopsy and resection of skull lesions using transorbital endoscopic approaches: primary results D. Golbin (Russian Federation)	17:52 - 18:00
Short-term surgical outcome for vestibular schwannoma in Sweden: a nation-wide registry study J. Bartek Jr (Sweden)	18:00 - 18:08

Vascular Neurosurgery
16:50 - 18:20

Wicklow Meeting Room 3

Masterclass: Giant Aneurysms

Chairs:

P. Vajkoczy (Germany)
C. Tolias (United Kingdom)

Natural history (register) P. Vajkoczy (Germany)	16:50 - 17:05
Endovascular J. Thornton (Ireland)	17:05 - 17:20

Scientific Programme

Surgical	17:20 - 17:35
A. Dehdashti (United States of America)	
Abnormal features in EEG brain network of adult Moyamoya disease and its implications for preclinical diagnosis	17:35 - 17:43
Y. Gu (China)	
Hoarseness after carotid endarterectomy- the technique for preventing hoarseness based with laryngoscope and vagus nerve monitoring	17:43 - 17:51
T. Tamaki (Japan)	
Unruptured aneurysms growth rates and timing in a UK cohort - towards guidelines for surveillance	17:51 - 17:59
P. Grover (United Kingdom)	
Risk of first hemorrhage of brain arteriovenous malformations during pregnancy: a systematic review of the literature	17:59 - 18:07
A. Lo Presti (Spain)	
Surgical treatment of pediatric stroke (PS)	18:07 - 18:15
E. Shevchenko (Russian Federation)	

Spinal Neurosurgery
16:50 - 18:20

Wicklow Meeting Room 4

Masterclass: Spine 3

Chairs:

V. Papanastassiou (Cyprus)
E. Tessitore (Switzerland)

Anterior discectomy without fusion: a new technique	16:50 - 17:05
Y. Aydin (Turkey)	
Management of spondylodiscitis	17:05 - 17:20
C. Derham (United Kingdom)	
MIS treatment of fractures	17:20 - 17:35
P. Yann-Charles (France)	
Complex cervical spine surgery	17:35 - 17:50
M. Fornari (Italy)	
Risk factor analysis for secondary fusion surgery after surgical decompression in lumbar spinal stenosis	17:50 - 17:58
E. Archavlis (Germany)	
Surgical management of sacrococcygeal chordomas assisted by temporary transcatheter balloon occlusion of the abdominal aorta	17:58 - 18:06
J. Liu (China)	
Percutaneous vertebroplasty as pain relief for osteoporotic vertebral compression fractures - a systematic review and meta-analysis of 11 randomised controlled trials and 1233 patients	18:06 - 18:14
A. Mines (United Kingdom)	

Scientific Programme

Peripheral NV
16:50 - 17:35

Wicklow Meeting Room 5

Masterclass: Out-of-the Box Thinking in Difficult Peripheral Nerve Problems

Chairs:

L. Rasulic (Serbia)
G. Antoniadis (Germany)

Adverse events related to peripheral nerves surgery-complications, sequelae, mistreatment: Avoidance, treatment modalities and outcome L. Rasulic (Serbia)	16:50 - 17:05
Neurolymphomatosis: an underdiagnosed condition R. Spinner (United States of America)	17:05 - 17:20
TOS - video guided exemplary exposure T. Kretschmer (Austria)	17:20 - 17:35

Neuro-Oncology
17:30 - 18:20

Ecocem Room

Neuro-Oncology Parallel 2

Chairs:

D. Jaskolski (Poland)

Surgical management of thalamic gliomas: a retrospective, monocentric study of 60 patients M. Schiariti (Italy)	17:30 - 17:38
Diffuse low grade glioma: a 10 years single institution case series P.P. Sekhon (United Kingdom)	17:38 - 17:46
Proteomic map of glioma biopsies reveals functional defects in endocytosis G. Hutter (Switzerland)	17:46 - 17:54
Tumor in terra incognita: neurological and neuropsychological outcomes of transcortical giant insular gliomas surgery L. Gay (Italy)	17:54 - 18:02
Extent of resection, MGMT promoter methylation status and tumor location independently predict progression-free survival in adult sporadic pilocytic astrocytomas C. Jungk (Germany)	18:02 - 18:10
Ex-vivo confocal laser endomicroscopy (CONVIVO System) in patients with glioblastoma using sodium fluorescein: preliminary experience with 15 Patients F. Acerbi (Italy)	18:10 - 18:18
Intermediate results of recurrent glioblastoma surgery followed by intraoperative balloon electronic brachytherapy A. Gaytan (Russian Federation)	18:18 - 18:26

Scientific Programme

Global Neurosurgery
17:35 - 18:20

Wicklow Meeting Room 5

Global Neurosurgery Parallel 1

Chairs:

L. Rasulic (Serbia)
G. Antoniadis (Germany)

Prospective study of neurotrauma surgery in Addis Ababa, Ethiopia: clinical presentation, injury types and trauma causes	17:35 - 17:43
T.L. Teklemariam (Ethiopia)	
Assisted education for specialized medicine: a sustainable development plan in Myanmar	17:43 - 17:51
I. Zubak (Switzerland)	
The role of complexity in outcome prediction after brain tumor resection	17:51 - 17:59
M. Broggi (Italy)	
Artificial intelligence and machine learning in neurosurgery: the current trends	17:59 - 18:07
G. Danilov (Russian Federation)	
Risk of bleeding after craniotomy in patients treated with platelet inhibitors or anticoagulants	18:07 - 18:15
J. Soleman (Switzerland)	
Task-shifting and task-sharing in neurosurgery: an international survey of current practices in low- and middle-income countries and global perspectives	18:15 - 18:23
F. Robertson (United States of America)	

Neuro-Oncology
17:40 - 18:20

Auditorium

Neuro-Oncology Parallel 1

Chairs:

C. Schirmer (United States of America)
F. Munoz (Spain)

Management evaluation of metastasis in the brain (MEMBRAIN) - A UK & Ireland prospective, multicentre cohort study	17:40 - 17:48
J. Jung (United Kingdom)	
Treatment response assessment maps (TRAMs): increased/decreased sensitivity to tumor/treatment-effects and errors in volumes calculations as a function of acquisition/analysis parameters	17:48 - 17:56
Y. Mardor (Israel)	
Relationship between changes in advanced diffusion tractography of the corticospinal tract and pathological motor cortex excitability	17:56 - 18:04
F. Vergani (United Kingdom)	
A virtual tool for the patient-specific treatment of glioblastoma in clinical practice	18:04 - 18:12
J. Falco (Italy)	

Scientific Programme

**Microfragmented human fat tissue is a natural scaffold for drug delivery:
potential application in neuro-oncology**
F. Restelli (Italy)

18:12 - 18:20

Scientific Programme

Friday, 27 September 2019

On invitation only
08:00 - 11:30

Liffey Meeting Room 2A

EANS New Board Meeting (on invitation only)

Neuro-Oncology
08:30 - 10:00

Auditorium

General Neuro-Oncology

Chairs:

H. Emmez (Turkey)

Tumour educated platelets	08:30 - 08:40
T. Wurdinger (Netherlands)	
Liquid biopsy in clinical practice	08:40 - 08:50
A. Ray (India)	
cfDNA in glioma	08:50 - 09:00
R. Mair (United Kingdom)	
Awake craniotomy for lesions near the eloquent cortex and subcortical white matter	09:00 - 09:10
T. Dziedzic (Poland)	
Molecular-markers and their clinical correlation in glioblastoma	09:10 - 09:20
The pineal/posterior incisural space - surgical approaches	09:20 - 09:30
M. Cunha e Sa (Portugal)	
Extent of resection in brain metastases: when does it matter?	09:30 - 09:38
A.F.C. Hulsbergen (United States of America)	
OptimalTTF-1: open-label phase 1 clinical trial Testing Individualized skull-remodeling surgery to maximize levels of TTFields intensity in recurrent glioblastoma. Final analysis	09:38 - 09:46
A.R. Korshøj (Denmark)	
Genetic signatures of skull base chordoma progression after surgery and radiation	09:46 - 09:54
P. Gardner (United States of America)	
3D FLAIR MR-based supramarginal resection of high-grade glioma: correlation with clinical outcome and survival analysis in 50 patients. A prospective, single institution, pilot study	09:54 - 10:02
G.M. Barbagallo (Italy)	

Scientific Programme

Other
08:30 - 09:30

Ecocem Room

WFNS/FLANC Parallel Session

Chairs:

E. Spagnuolo (Uruguay)
F. Servadei (Italy)

The FLANC's experience on education and professional training programs for young neurosurgeons - Q&A	08:30 - 08:40
C. Yampolsky (Argentina)	
Minimally invasive approach to posterior circulation aneurysms	08:40 - 08:50
M. Baccanelli (Argentina)	
Surgery of multiple aneurysms - Q&A	08:50 - 09:00
E. Spagnuolo (Uruguay)	
Minimally invasive alternative for complex posterior circulation aneurysms	09:00 - 09:10
J. Mura (Chile)	
Neuromonitoring in acoustic neuroma surgery - Q&A	09:10 - 09:20
A. Cerejo (Portugal)	
Discussion on the topics above mentioned	09:20 - 09:30

Vascular Neurosurgery
08:30 - 10:00

Wicklow Hall 1

Vascular Parallel 3

Chairs:

A. Pasqualin (Italy)
D. O'Brien (Ireland)

Management of dural fistulas	08:30 - 08:40
F. González-Llanos (Spain)	
The future cerebrovascular neurosurgeon in Europe: About training, case load and quality of care	08:40 - 08:50
M. Wiedmann (Norway)	
Electro-microsurgery: the nidus dissection technique learned from 200 surgical battles against cerebral AVMs	08:50 - 08:58
H. Kurita (Japan)	
Clinical and neuropathologic analysis of intracerebral hemorrhage in patients with cerebral amyloid angiopathy	08:58 - 09:06
H. Kurita (Japan)	
Linac-based radiosurgery alone for arteriovenous malformation: over 12 years of observation	09:06 - 09:14
Periodontitis and gingival bleeding associate with intracranial aneurysms and risk of aneurysmal subarachnoid haemorrhage	09:14 - 09:22
J. Frösen (Finland)	

Scientific Programme

Vitamin D - a new perspective in treatment of cerebral vasospasm after subarachnoid hemorrhage S. Kashefiolasl (Germany)	09:22 - 09:30
Unlock decompressive craniectomy In malignant stroke - treatment strategy for improving outcome (UDITI) S.K. Singh (India)	09:30 - 09:38
The 10th years' treatment experience for patients with occlusion of internal carotid artery (ICA) V. Luk'yanchikov (Russian Federation)	09:38 - 09:46
Rate of recurrent and de novo aneurysms in long-term follow-up after prophylactic aneurysm surgery D.W. Zumofen (Switzerland)	09:46 - 09:54
Endovascular vs surgical obliteration rates of spinal dural arteriovenous fistulae: a single UK centre experience G. Zilani (United Kingdom)	09:54 - 10:02

Spinal Neurosurgery
08:30 - 10:00

Wicklow Hall 2a

Debates in Spine 2

Chairs:

F. Ringel (Germany)
P. Statham (United Kingdom)

There is no need for endoscopic spine surgery R. Trivedi (United Kingdom) R. Wagner (Germany)	08:30 - 08:50
There is no need for endoscopic spine surgery - Q&A R. Trivedi (United Kingdom) R. Wagner (Germany)	08:50 - 09:00
Sagittal balance: the French conspiracy? N. Haden (United Kingdom)	09:00 - 09:20
Sagittal balance: the French conspiracy? - Q&A N. Haden (United Kingdom)	09:20 - 09:30
Work - life balance as a spinal surgeon F. Ringel (Germany)	09:30 - 09:40
Conservative management of odontoid type II fractures in elderly. Results from an European multicenter study S. Chibbaro (France)	09:40 - 09:48
Significance of anatomic and radiologic characteristics of craniocervical junction for the choice of neurosurgical approach M. Milic (Serbia)	09:48 - 09:56

Scientific Programme

Skull Base
08:30 - 10:00

Wicklow Hall 2b

Meningiomas of Skull Base

Chairs:

K. Turel (India)
A.S. Youssef (United States of America)

Surgical management of trigeminal neuralgia K. Turel (India)	08:30 - 08:40
Arterial Encasement and Intraoperative Management in Skull Base Meningiomas M.K. Baskaya (United States of America)	08:40 - 08:50
Challenging the osseous component of sphenoorbital meningiomas S. Maschke (Austria)	08:50 - 08:58
Analysis of corregister of high field MRI (3T) and Methionine and FDG PET in the management of Cushing's disease recurrence C. Arraez (Spain)	08:58 - 09:06
Machine learning-based identification of patients at high risk for intraoperative cerebrospinal fluid leaks and subtotal resection in endoscopic transsphenoidal pituitary adenoma surgery V.E. Staartjes (Switzerland)	09:06 - 09:14
Pituitary apoplexy: early and long term outcomes from a single uk tertiary neurosurgical unit A. Cavalli (United Kingdom)	09:14 - 09:22
Towards a personalized treatment for prolactinoma. Transsphenoidal surgery and medical therapy in a reference center with systematic review of the literature P.P. Mattogno (Italy)	09:22 - 09:30
Endoscopic transsphenoidal excision of capsule of pituitary adenomas growth hormone-secreting A. Grigoriev (Russian Federation)	09:30 - 09:38
A journey into and around orbital region pathology: indications, approaches and outcomes. Preliminary data from the analysis of a multi-disciplinary cohort of 102 patients - The role of the superior eyelid transorbital approach for the management of spheno-orbital meningiomas F. Restelli (Italy)	09:38 - 09:46
How to approach posterior third ventricle lesions: an innovative neuroendoscopic technique J.G. Hanrahan (United Kingdom)	09:46 - 09:54
Reconstructive phase in the endoscopic endonasal approaches to the skull base and the anterior cranio-vertebral junction: from the operating room to the E.N.T. procedure room L.G.M. di Somma (Italy)	09:54 - 10:02

Scientific Programme

Peripheral NV
08:30 - 10:00

Wicklow Meeting Room 1

Peripheral Nerve Surgery - Trauma

Chairs:

T. Kretschmer (Austria)
A. Dubuisson (Belgium)

Diagnostic of nerve injury with high resolution ultrasound: New aspects K. Scheglmann (Switzerland)	08:30 - 08:40
Facial nerve trauma: Evaluation and considerations in management J. Carlos Roa (Spain)	08:40 - 08:50
Nerve injuries of the upper extremity associated with vascular trauma - surgical treatment and outcome L. Rasulic (Serbia)	08:50 - 09:00
Neurotization in peripheral nerve injuries F. Weyns (Belgium)	09:00 - 09:10
Iatrogenic nerve injuries (personal series and review of the literature) A. Dubuisson (Belgium)	09:10 - 09:20
Traumatic injury to the lumbar sacral plexus	09:20 - 09:30
Neuropathic pain C. Winfree (United States of America)	09:30 - 09:40
Best Abstract in Peripheral Nerves: Malignant peripheral nerve sheath tumors (MPNSTs): a Dutch national cohort study E. Martin (Netherlands)	09:40 - 09:50
Best Acta Neurochirurgica Paper of the Year in Peripheral Nerves: Use of ultrasound and targeted physiotherapy in the management of a nerve suture performed under joint flexion	09:50 - 10:00

Pediatric Neurosurgery
08:30 - 10:00

Wicklow Meeting Room 3

Masterclass: Highlighting Neurosurgical Management Differences btw. Children and Adults

Chairs:

M. Juhler (Denmark)
C. Mallucci (United Kingdom)

Differences in pediatric vs. adult AVM management M. Javadpour (Ireland)	08:30 - 08:45
ICP and outcome in pediatric TBI S.H. Pedersen (Denmark)	08:45 - 09:00
Adult outcome in pediatric hydrocephalus S. Sgouros (Greece)	09:00 - 09:15

Scientific Programme

Innovative implantation of a telemetry reservoir transducing intraventricular pressure following endoscopic third ventriculostomy & arachnoid cyst fenestration procedures: a case series	09:15 - 09:23
M. Foroughi (United Kingdom)	
E-Bike-related cranial injuries in pediatric population	09:23 - 09:31
Y. Karepov (Israel)	
In vivo measurement of intracellular protoporphyrin IX fluorescence intensity in pediatric brain tumors	09:31 - 09:39
M. Schwake (Germany)	
Outcome of DermabondTM PrineoTM for wound closure after intradural spine surgery in children: preliminary results of eight consecutive patients	09:39 - 09:47
N. Eberhard (Switzerland)	

Functional Neurosurgery
08:30 - 09:15

Wicklow Meeting Room 4

Masterclass: Technical

Chairs:

M. Sindou (France)
C. Moran (Ireland)

Trigeminal Neuralgia: from imaging to surgery	08:30 - 08:45
M. Sindou (France)	
Lesions - DREZ and cordotomy	08:45 - 09:00
M. Sindou (France)	
How to do DBS	09:00 - 09:15
J. Fitzgerald (United Kingdom)	

Vascular Neurosurgery
08:30 - 09:15

Wicklow Meeting Room 5

Masterclass: Surgical Treatment of Brain Vascular Malformations

Chairs:

K. O'Neill
T. Palaiologos (Greece)

AVM	08:30 - 08:45
R. Kirollos (United Kingdom)	
Brainstem cavernoma	08:45 - 09:00
T. Mathiesen (Denmark)	
Cranial DAVFs	09:00 - 09:15
J. van Dijk (Netherlands)	

Scientific Programme

On invitation only
09:00 - 10:30

Liffey Meeting Room 1

Trauma Section Meeting (on invitation only)

Functional Neurosurgery
09:15 - 10:00

Wicklow Meeting Room 4

Functional Neurosurgery Parallel 1

Chairs:

M. Sindou (France)
C. Moran (Ireland)

Single electrode dual targeting in tremor DBS- single center experience in 25 patients	09:15 - 09:23
D.B. Odak (United Kingdom)	
Magnetic resonance-guided focused ultrasound and Gamma Knife Radiosurgery mono-lateral thalamotomy for medical refractory essential tremor: a single-center initial experience	09:23 - 09:31
M. Longhi (Italy)	
Implementation of awake-awake-awake craniotomy in surgical treatment of lesional epilepsy	09:31 - 09:39
A. Sitnikov (Russian Federation)	
Bilateral lesioning of anterior thalamic nuclei in intractable epilepsy	09:39 - 09:47
A. Sitnikov (Russian Federation)	
Vagus nerve stimulation for drug-resistant epilepsy: five-year outcomes from a single center	09:47 - 09:55
V. Sá Pinto (Portugal)	

Vascular Neurosurgery
09:15 - 10:00

Wicklow Meeting Room 5

Vascular Parallel 4

Chairs:

K. O'Neill

Complication incidence and management of adult and pediatric moyamoya disease after bypass surgeries	09:15 - 09:23
Q. Zhang (China)	
Reversal of venous congestion after brain AVM surgery leads to normalization of peri-nidal cerebrovascular reactivity in seizure-prone brain AVM patients	09:23 - 09:31
M. Sebök (Switzerland)	
Augmented reality fluorescence GLOW800: a single centre experience in cerebrovascular surgery	09:31 - 09:39
D.M. Croci (Switzerland)	

Scientific Programme

Treatment strategy for patients with hemodynamic stenosis of Internal Carotid Artery (ICA) and occlusion of contralateral ICA 09:39 - 09:47
V. Dalibaldyan (Russian Federation)

Intracranial aneurysms: uncertainty of geometric rupture risk parameters 09:47 - 09:55
A. Spuler (Germany)

Challenges in clip reconstruction of cerebral aneurysm 09:55 - 10:03
A. Thapa (Nepal)

Other
09:30 - 10:00

Ecocem Room

Hydrocephalus and CSF Dynamics Parallel 1

Chairs:

E. Spagnuolo (Uruguay)
F. Servadei (Italy)

Risk factors for post-traumatic hydrocephalus following decompressive craniectomy 09:30 - 09:38
S.M.F. Romualdo (Germany)

Survival and risk analysis of shunting after surgery for brain tumors in the adult population 09:38 - 09:46
S.A.M. Hosainey (United Kingdom)

Intracranial dynamics in the supine and standing positions: does anything more change than the mean intracranial pressure? 09:46 - 09:54
R. Martin-Laez (Spain)

Multidisciplinary
10:00 - 10:40

Poster Booth 1 - ePoster Area

ePoster Oral Presentation From the Bench to the Neurosurgical Bed & Neurosurgery in the Developing World

Chairs:

T. Mathiesen (Denmark)
A. Grotenhuis (Netherlands)

Patterns of acute inflammatory response to cell transplantation surgery at the graft site 10:00 - 10:03
M. Abdulla (United Kingdom)

Optimization of watertight spinal dural sealing 10:03 - 10:06
A. Kinaci (Netherlands)

Anatomical considerations of the recurrent laryngeal nerve and it's vulnerability during surgical procedures of the neck 10:06 - 10:09
D. Fahim (United States of America)

Scientific Programme

Post craniotomy headache in patients with benign lesions of the brain - a single center observational study	10:09 - 10:12
M. Hackl (Germany)	
Diverse ischemic postconditioning protocols affect the infarction size in focal ischemic stroke	10:12 - 10:15
S.P. Joo (Korea, Republic of)	
Secondary damage after traumatic brain injury: the role of glycoprotein Ib	10:15 - 10:18
C. Stetter (Germany)	
Development of a new dural sealing device from the bench to the neurosurgical bed	10:18 - 10:21
T. van Doormaal (Netherlands)	
Comparison of two surgical techniques in the management of acute SDH	10:21 - 10:24
S.B. Anis (Pakistan)	
The value of optic nerve sheath diameter measurement in assessing intracranial pressure using bedside ultrasound in resource limited setting	10:24 - 10:27
A. Aklilu (Ethiopia)	

Spinal Neurosurgery
10:00 - 10:40

Poster Booth 2 - ePoster Area

ePoster Oral Presentation Spinal Neurosurgery

Chairs:

J. Duff (Switzerland)

Transoral odontoidectomy: our experience in a limited resources set-up	10:00 - 10:03
R. Rehman (Pakistan)	
Surgical treatment of spinal litic lesions in patients affected by malignant haematologic diseases	10:03 - 10:06
S. Telera (Italy)	
Surgical options in treating cervical stenosis and myelopathy	10:06 - 10:09
P. Hitchon (United States of America)	
Retrospective evaluation of the TLICS and TLAOSIS scales for the treatment of thoracolumbar fractures: unicentric preliminary experience	10:09 - 10:12
C. Ortega-Angulo (Spain)	
Minimally invasive surgery (MIS) for reduction and stabilization of single level burst fractures of the thoracolumbar and lumbar spine	10:12 - 10:15
N. Gabrovsky (Bulgaria)	
Surgery for herniated lumbar disc in public vs private hospitals: a pragmatic comparative effectiveness study	10:15 - 10:18
M.A. Madsbu (Norway)	

Scientific Programme

Unfulfilled information needs lead to higher anxiety levels in patients before and after informed consent for spine surgery F. Ringel (Germany)	10:18 - 10:21
Tackling research inefficiency and imprecision - literature reviews & meta-analyses in degenerative cervical myelopathy D.Z. Khan (United Kingdom)	10:21 - 10:24
Outcomes of anterior cervical discectomy and fusion without fixation: a single surgeon's experience A. ElGhamry (United Kingdom)	10:24 - 10:27
Timing is crucial in the treatment of patients with severe motor deficits caused by lumbar disc herniation N. Koegl (Austria)	10:27 - 10:30

General
10:40 - 11:20

Auditorium

EANS Research Grants & Awards

Chairs:

R. Rola (Poland)
A. Jenkins (United Kingdom)

EANS Research Fund - Introduction R. Rola (Poland)	10:40 - 10:48
Degenerative cervical myelopathy- the secondary harm C. Blume (Germany)	10:48 - 10:52
Pre-conditioning of motor network by repetitive navigated transcranial magnetic stimulation (rTMS) in patients who are candidate to elective surgery in motor areas A. Conti (Italy)	10:52 - 10:56
Effect of infection, modic and inflammation on clinical outcomes in Radiculopathy (EIMICOR) N. Djuric (Netherlands)	10:56 - 11:00
Ex-vivo tissue diagnostic through impedance spectroscopy in neuro-oncology L. Häni (Switzerland)	11:00 - 11:04
Alteration of neurovascular repair and blood spinal cord barrier disruption post traumatic spinal cord injury through modified expression of VEGF-A V. Hubertus (Germany)	11:04 - 11:08
Monocyte / macrophage polarization and their therapeutic implications in SAH S. Muhammad (Finland)	11:08 - 11:12

Scientific Programme

Aesculap EANS Research Prize - Best Clinical Paper: Surgical management of lower-grade glioma in the spotlight of the 2016 WHO classification system D. Delev (Germany)	11:12 - 11:16
Aesculap EANS Research Prize - Best Laboratory Paper: The acute phase of Experimental Subarachnoid Hemorrhage: Intracranial Pressure Dynamics and their effect on cerebral blood flow and autoregulation C. Blume (Germany)	11:16 - 11:20

On invitation only
11:00 - 12:00

Wicklow Meeting Room 4

Industry Gathering (on invitation only)

On invitation only
11:00 - 12:00

Liffey Meeting Room 2A

Spine Section Meeting (on invitation only)

Neuro-Oncology
11:20 - 13:00

Auditorium

New Thinking in Neuro-Oncology

Chairs:

S. MacNally (Ireland)
C. Watts (United Kingdom)

Cerebral metastases M. Westphal (Germany)	11:20 - 11:35
High grade glioma P. Schucht (Switzerland)	11:35 - 11:50
Low grade glioma L. Bello (Italy)	11:50 - 12:05
Meningioma T. Santarius (United Kingdom)	12:05 - 12:20
Best Abstract in Neuro-Oncology: Return to work following low-grade glioma diagnosis: a Swedish nationwide study A.S. Jakola (Sweden)	12:20 - 12:30
Best Acta Neurochirurgica Paper of the Year in Neuro-Oncology: SSTR-2 as a potential tumour-specific marker for fluorescence-guided meningioma surgery B. Dijkstra (Netherlands)	12:30 - 12:40

Scientific Programme

Continuous dynamic mapping to identify the corticospinal tract in motor eloquent brain tumors - experience in 391 cases	12:40 - 12:48
K. Seidel (Switzerland)	

Peripheral NV
13:00 - 14:30

Wicklow Meeting Room 3

Peripheral NV Parallel 1

Chairs:

A. Dubuisson (Belgium)
D. Garozzo

Presentation, genetics and therapy of peripheral nerve tumors in Germany - results from a multicenter registry	13:00 - 13:08
N. Dengler (Germany)	
Fluorescein in peripheral nervous system tumors: a surgical series	13:08 - 13:16
I.G. Vetrano (Italy)	
A new method of facial nerve reconstruction for chronic post-traumatic facial paralysis: 10 cases report	13:16 - 13:24
X. Liu (China)	
Bioactive fibrin conduits for repair and reconstruction of nerve gap-injuries	13:24 - 13:32
S. Madduri (Switzerland)	
Value of preoperative ultrasound in schwannoma like lesions. Experience with two cases of painful, extradigital glomus tumors	13:32 - 13:40
A. Knoll (Germany)	
Anatomical abnormalities in the thoracic outlet syndrome: a surgical challenge	13:40 - 13:48
A. Turrini (Italy)	
Delayed brachial plexus palsy following clavicular fracture - How meticulous documentation can prevent misdiagnosis and complication : a case report and review of literature	13:48 - 13:56
V.S. Shenoy (India)	
Full-endoscopic system utilization for decompression of nerve structures on lumbar level of the spine: first experience report	13:56 - 14:04
V. Korolishin (Russian Federation)	
Efficiency of the fibrin matrix transplantation with neuroinduced mesenchymal stem cells for restoration of sciatic nerve function after its complete rupture in rats	14:04 - 14:12
V. Kaliuzhka (Ukraine)	
Single centre review of peripheral nerve sheath tumour surgery	14:12 - 14:20
A. Kozak Eskenazi (United Kingdom)	

Scientific Programme

Vascular Neurosurgery
13:00 - 14:30

Poster Booth 1 - ePoster Area

ePoster Oral Presentation Vascular Neurosurgery

Chairs:

J. Beck (Germany)

Systemic and CSF Interleukin-1alpha expression in a rabbit closed cranium subarachnoid haemorrhage model	13:00 - 13:03
D.M. Croci (Switzerland)	
Aneurysmal subarachnoid haemorrhage (aSAH) and age above 70 years: towards predicting a favourable outcome	13:03 - 13:06
K.-F. Lindegaard (Norway)	
Microsurgical treatment of large and giant ICA aneurysms	13:06 - 13:09
A. Spyrou (Russian Federation)	
Entire orifice blocking-assisted microsurgical treatment: clipping of intracranial giant wide-neck paraclinoid aneurysms	13:09 - 13:12
L. Ma (China)	
Pediatric intracranial pseudoaneurysms: a report of 15 cases and review of the literature	13:12 - 13:15
L. Ma (China)	
Validation of the Subarachnoid Haemorrhage International Trialists' (SAHIT) score: single centre retrospective cohort comparison study	13:15 - 13:18
A. Baig Mirza (United Kingdom)	
Emergent rescue extracranial-intracranial bypass for acute carotid stent thrombosis- case report	13:18 - 13:21
G. Mrak (Croatia)	
Elevated systemic chemokine CCL5 is a predictive biomarker for post SAH complications and clinical outcome after aneurysmal subarachnoid hemorrhage (aSAH)	13:21 - 13:24
S. Muhammad (Finland)	
Peripheral blood monocytes are polarized to specific subtypes and express distinct activation states after aneurysmal subarachnoid hemorrhage (SAH)	13:24 - 13:27
S. Muhammad (Finland)	
Transcranial color-coded duplex sonography implication for verification of extracranial-intracranial bypass patency in case of chronic internal carotid artery occlusion	13:27 - 13:30
A. Nemirovskiy (Russian Federation)	
How should small unruptured intracranial aneurysms be managed? - a systematic literature study	13:30 - 13:33
K.H. Olsen (Denmark)	
What is the best therapeutic approach to a pediatric patient with a deep-seated brain AVM? A systematic review	13:33 - 13:36
G. Patet (Switzerland)	

Scientific Programme

Correlation between stenosis of internal carotid artery and atherosclerosis of cerebral arteries	13:36 - 13:39
O. Petr (Austria)	
Time course of metabolomics in CSF after aneurysmal SAH	13:39 - 13:42
W.M. Ho (Austria)	
Cerebral energy status and altered metabolism in early brain injury after aneurysmal SAH: first results of a prospective 31P-MRS study	13:42 - 13:45
A. Görke (Austria)	
Successful endovascular treatment of low grade Brain AVMs	13:45 - 13:48
M. Puthuran (Malta)	
Acute flow diverting stents for aneurysmal subarachnoid haemorrhage: a case series	13:48 - 13:51
M. Rainey (United Kingdom)	
Obesity paradox in subarachnoid hemorrhage: a systematic review	13:51 - 13:54
I.M. Rautalin (Finland)	
Intracerebral haemorrhage (ICH) evacuation by minimally invasive neurosurgery (MIN) techniques	13:54 - 13:57
K. Resch (Austria)	
Timing of carotid endarterectomy after intravenous thrombolysis and mechanical thrombectomy	13:57 - 14:00
M. Sames (Czech Republic)	

Neuro-Oncology
13:00 - 14:30

Poster Booth 2 - ePoster Area

ePoster Oral Presentation Neuro-Oncology II

Chairs:

S. MacNally (Ireland)

Surgical nuances for safe resection of anterior clinoid meningiomas	13:00 - 13:03
O. Voznyak (Ukraine)	
Intraoperative video angiography experience in surgical treatment of spinal cord hemangioblastomas	13:03 - 13:06
S. Timonin (Russian Federation)	
Surgical strategy and long term follow up study for craniopharyngiomas by hybrid surgery	13:06 - 13:09
H. Oka (Japan)	
Olfactory groove meningioma - Impact of the chosen surgical technique on the prognosis	13:09 - 13:12
R. Malcata Nogueira (Portugal)	
Is Intraoperative MRI beneficial in the time of endoscopic transsphenoidal pituitary surgery?	13:12 - 13:15
A. Pala (Germany)	

Scientific Programme

Hyperostosis in meningiomas - a retrospective exploration of histological correlates D.Z. Khan (United Kingdom)	13:15 - 13:18
Olfactory results of endoscopic endonasal surgery for pituitary adenoma: a prospective study of 143 patients D. Netuka (Czech Republic)	13:18 - 13:21
Machine learning-based preoperative predictive analytics in transsphenoidal surgery for Cushing's disease: can we predict the future? V.E. Staartjes (Switzerland)	13:21 - 13:24
The strategy of drilling the occipital condyle and muscle dissection in far-lateral approach for anterior foramen magnum lesions: 28 cases report X. Liu (China)	13:24 - 13:27
Minimally invasive approach for surgical treatment of craniovertebral junction meningiomas S. Kaprovoy (Russian Federation)	13:27 - 13:30
Preservation of anterior and posterior pituitary function during transnasal endoscopic surgery of craniopharyngiomas M. Guk (Ukraine)	13:30 - 13:33
Transpalpebral approach for microsurgical removal of tuberculum sellae meningiomas R. Dzhindzhikhadze (Russian Federation)	13:33 - 13:36
Surgical treatment of olfactory groove meningioma - bifrontal interhemispheric vs unilateral approach S.-I. Lee (Korea, Republic of)	13:36 - 13:39
Radiological outcomes after surgery for spinal myxopapillary ependymoma in the Republic of Ireland J.C. Duddy (Ireland)	13:39 - 13:42
Potential target therapy in meningiomas: role of Dkk-3 and claudin-5 M. Caffo (Italy)	13:42 - 13:45
Endoscopic surgery for colloid cysts: clinical and radiological outcome F. Molina Jaque (New Zealand)	13:45 - 13:48
Does the speed of reduction in peripheral cortisol levels correlates with long term post hypophysectomy Cushing disease control? S. Hassan (United Kingdom)	13:48 - 13:51
The results comparison of transsphenoidal surgery in patients with Cushing's disease (CD) with micro- and non-visualized pituitary adenoma A. Grigoriev (Russian Federation)	13:51 - 13:54
Endoscopic transsphenoidal surgery for Cushing's Disease: a single surgeon experience Z. Brady (Bulgaria)	13:54 - 13:57
Infratentorial epidermoid cysts treatment: an overview of 94 observations V. Fedirko (Ukraine)	13:57 - 14:00

Scientific Programme

Spine and spinal cord tumor surgery: advanced treatment concept D. Asyutin (Russian Federation)	14:00 - 14:03
The impact of presurgical planning based on navigated transcranial magnetic stimulation on surgery of rolandic meningiomas A. Germanò (Italy)	14:03 - 14:06

Spinal Neurosurgery
14:30 - 16:10

Auditorium

Spine Plenary

Chairs:

J. Timothy (United Kingdom)
A.K. Demetriades (United Kingdom)

Neuromonitoring for spinal surgery is a waste of time C. Bolger (Ireland)	14:30 - 14:45
Is neuromonitoring for spinal surgery a waste of time? F. Sala (Italy)	14:45 - 15:00
Neuromonitoring for spinal surgery is a waste of time - Q&A C. Bolger (Ireland) F. Sala (Italy)	15:00 - 15:15
Whiplash: "fact or fiction" J. Phillips (Ireland)	15:15 - 15:30
Best Abstract in Spinal Neurosurgery: Minimally invasive solutions of complicated degenerative compressive lumbar spinal lesions Y. Aydin (Turkey)	15:30 - 15:40
Best Acta Neurochirurgica Paper of the Year in Spinal Neurosurgery: Prior bariatric surgery lowers complication rates following spine surgery in obese patients	15:40 - 15:50
Spinal fusion for chronic low back pain - results from a survey at the German Spine Societies' Annual Congress 2018 D. Baschera (Switzerland)	15:50 - 15:58
Positive correlation between spinal instability and increased facet joint fluid in degenerative spine disease S. Akhtar Khan (Pakistan)	15:58 - 16:06

On invitation only
16:00 - 18:00

Liffey Meeting Room 2A

EANS2020 Scientific Programme Meeting (on invitation only)

Scientific Programme

Neurotrauma & Critical Care
16:10 - 16:50

Poster Booth 1 - ePoster Area

ePoster Oral Presentation Trauma & Critical Care

Chairs:

P. Tsitsopoulos (Greece)

International collaborative research initiative on chronic subdural haematoma (iCORIC); planning the future of CSDH trials and management	16:10 - 16:13
E. Edlmann (United Kingdom)	
Subperiosteal versus subdural drain after burr-hole drainage in patients with chronic subdural hematoma under platelet inhibitors and/or anticoagulants: a subanalysis of the cSDH-Drain RCT	16:13 - 16:16
M. Kamenova (Switzerland)	
Surgery for acute subdural hematoma: the value of decompressive craniectomy by propensity score analysis	16:16 - 16:19
A. Castaño-Leon (Spain)	
Time to and possible risk factors for recurrence after burr-hole drainage of chronic subdural hematoma - a subanalysis of the cSDH-Drain RCT	16:19 - 16:22
K. Lutz (Switzerland)	
Acute anterior pituitary dysfunction in patients presenting to the emergency department with a mild traumatic brain injury	16:22 - 16:25
H. Flower (United Kingdom)	
Complications following decompressive craniectomy	16:25 - 16:28
J. Mracek (Czech Republic)	
Patterns of care: burr-hole cover application for chronic subdural hematoma trepanation	16:28 - 16:31
F. Vasella (Switzerland)	
Surgical complication of closed craniofacial injury: 20 years experience	16:31 - 16:34
Z. Guo (China)	
Posterior fossa decompression for stroke: differences in long term outcomes between cerebellar haemorrhage and infarcts	16:34 - 16:37
D. Loh (Singapore)	
When the drain hits the brain	16:37 - 16:40
M. Kamenova (Switzerland)	
Patterns of head and neck injury in military vehicle occupants exposed to blast identified from post mortem computerised tomography	16:40 - 16:43

Technology
16:10 - 16:50

Poster Booth 2 - ePoster Area

ePoster Oral Presentation Technology & Innovations

Chairs:

T. Meling (Switzerland)
N. Gabrovsky (Bulgaria)

Scientific Programme

Can patient-specific, three-dimensionally printed models help neurosurgeons communicate better with their patients?	16:10 - 16:13
A. Alamri (United Kingdom)	
Reduction of external ventricular drain associated infections after introduction of a chlorhexidine containing dressing	16:13 - 16:16
M. Roethlisberger (Switzerland)	
Generating fictive trigonocephaly data using a generative adversarial network to produce data to train deep learning algorithms	16:16 - 16:19
H. Delye (Netherlands)	
Fluorescein and the YELLOW 560 Filter in Ganglioglioma surgery	16:19 - 16:22
J. Höhne (Germany)	
Intraoperative Superb Microvascular Imaging (SMI) with contrast agent of ultrasonography	16:22 - 16:25
M. Ishikawa (Japan)	
Critical role and importance of 3-dimensional printing models, augmented and virtual reality systems in digital-microneurosurgery: do not miss the future	16:25 - 16:28
Vasospasm monitoring of the basilar artery with image-guided transcranial Doppler sonography - a single center feasibility study	16:28 - 16:31
M. Stein (Germany)	
Frameless, pinless stereotactic aspiration of cerebral abscess in grown-up congenital heart disease: mitigating surgical and anaesthetic risk	16:31 - 16:34
T. Doke (United Kingdom)	
Pitfalls of intraoperative ultrasound - what can be done better?	16:34 - 16:37
A. Šteňo (Slovakia)	
Natural language processing for automated quantification of brain metastases reported in free-text radiology reports	16:37 - 16:40
J.T. Senders (United States of America)	

Functional Neurosurgery
16:50 - 18:20

Auditorium

Functional Parallel 2

Chairs:

W. Gray (United Kingdom)
M. Sindou (France)

DBS - an overview of current practice	16:50 - 17:00
T. Aziz (United Kingdom)	
Facial pain	17:00 - 17:10
J. Fitzgerald (United Kingdom)	
Dysembryoplastic neuroepithelial tumour in adults: a multi-centre retrospective study	17:10 - 17:18
A. Varma (United Kingdom)	

Scientific Programme

Anatomical features of primary brain tumors affect seizure risk and semiology K. Akeret (Switzerland)	17:18 - 17:26
Subgroup analysis of seizure outcome and quality of life in vagal nerve stimulator implantation in children J. Soleman (Switzerland)	17:26 - 17:34
Surgical, neuropsychological and quality of life outcomes after temporal lobe epilepsy surgery in elderly - what have we learned? D. Delev (Germany)	17:34 - 17:42
Usefulness of cerebral angiography for improved accuracy in stereo-electroencephalography: center experience and review of the literature I. Peciu-Florianu (France)	17:42 - 17:50
High frequency spinal cord stimulation in failed back surgery syndrome patients with predominant low back pain - a single center results S. Motov (Germany)	17:50 - 17:58
Safety of the paramedian supracerebellar-transtentorial approach for selective amigdalo-hyppocampectomy: a single center observational cohort study C. Serra (Switzerland)	17:58 - 18:06

Radiosurgery
16:50 - 17:46

Ecocem Room

Radiosurgery Parallel 2

Chairs:

M. Smrčka (Czech Republic)

Leksell Gamma Knife Radiosurgery in cavernous sinus meningiomas: results on 200 patients with at least 10-year-follow up period M. Longhi (Italy)	16:50 - 16:58
Italian multicenter study for the treatment of meningioma close to anterior optic-pathways with hypofractionated gamma knife radiosurgery P. Picozzi (Italy)	16:58 - 17:06
Long-term results following repeat gamma knife surgery for incompletely obliterated arteriovenous malformations after the first gamma knife treatment B. Lippitz (Germany)	17:06 - 17:14
Gamma knife surgery for the management of drug resistant trigeminal neuralgia I.C.O. Raknes (Norway)	17:14 - 17:22
Role of bevacizumab as a prophylactic and rehabilitative treatment modality in cases of sporadic and syndromic vestibular schwannoma: fifty shades of grey M. Tripathi (India)	17:22 - 17:30

Scientific Programme

Gammaknife radiosurgery in patients with cavernous sinus meningiomas, efficacy and related factors K. Hendi (Iran, Islamic Republic of)	17:30 - 17:38
Role of Gamma Knife in Giant intracranial lesions - AIIMS experience D. Agrawal (India)	17:38 - 17:46

Skull Base
16:50 - 18:20

Wicklow Hall 1

Skull Base Approaches

Chairs:

R. Nair (United Kingdom)
P. Gardner (United States of America)

Endoscopic surgery for craniopharyngiomas H. Schroeder (Germany)	16:50 - 17:00
Endoscopic resection of clival chordomas V. Agarwal (United States of America)	17:00 - 17:10
Surgical strategy for craniopharyngiomas H. Schroeder (Germany)	17:10 - 17:20
Endoscopic management of tuberculum meningiomas R. Nair (United Kingdom)	17:20 - 17:30
Management of giant pituitary adenomas N. Foroglou (Greece)	17:30 - 17:40
Lateral sphenoid wing meningiomas with bone invasion- still skull base surgery? T. Meling (Switzerland)	17:40 - 17:50
Giant pituitary tumours S. Sharif (Pakistan)	17:50 - 18:00
Early postoperative complications in meningioma: predictive factors and impact on outcome T. Meling (Switzerland)	18:00 - 18:10
Complications in Skull Base Surgery K. Turel (India)	18:10 - 18:20

Other
16:50 - 18:20

Wicklow Hall 2a

Irish-American Advances in Neurosurgery

Chairs:

S.K. Prasad (United States of America)
M. Javadpour (Ireland)

Scientific Programme

Cortical Screws; A less invasive lumbar fusion technique D. Refai (United States of America)	16:50 - 17:05
Management of complex craniovertebral anomalies in Chiari Type I malformation and syringomyelia D. Limbrick (United States of America)	17:05 - 17:20
Preliminary results from a phase I trial of intratumoral HSV G207 with or without radiation for the treatment of recurrent malignant supratentorial brain tumors in children J. Johnston	17:20 - 17:35
Advantages of reinventing the wheel: SEEG and laser ablation in America J.T. Willie (United States of America)	17:35 - 17:50
The role of micro-RNA in epileptogenesis - an exciting development with potential clinical application D. O'Brien (Ireland)	17:50 - 18:05
Robotics in spine surgery - Past, present and future S.K. Prasad (United States of America)	18:05 - 18:20

Other
16:50 - 18:20

Wicklow Hall 2b

Acta Neurochirurgica Session

Chairs:

T. Mathiesen (Denmark)
A. Grotenhuis (Netherlands)

Quantitative measurement of scientific quality and impact - stupid or beneficial? K. Schaller (Switzerland)	16:50 - 17:00
What does it take to publish a spinal paper B. Meyer (Germany)	17:00 - 17:10
Publication of videos A. Dehdashti (United States of America)	17:10 - 17:20
Tips and Tricks-getting the Abstract right D. Epstein (United Kingdom)	17:20 - 17:30
Which case reports should be published A. Grotenhuis (Netherlands)	17:30 - 17:40
When is violation of publication ethics a criminal offence M. Broekman (Netherlands)	17:40 - 17:50
Panel discussion B. Meyer (Germany) D. Epstein (United Kingdom) A. Dehdashti (United States of America)	17:50 - 18:20

Scientific Programme

Spinal Neurosurgery
16:50 - 17:40

Wicklow Meeting Room 1

EANS/CNS Emerging Technology in Spine Surgery

Chairs:

D. Refai (United States of America)
J. Duff (Switzerland)

Cortical Screws	16:50 - 17:00
S.K. Prasad (United States of America)	
3D navigation & robotics in spine surgery - True panacea or fake news?	17:00 - 17:10
J. Duff (Switzerland)	
Advances in endoscopic spine surgery	17:10 - 17:20
C. Hofstetter (United States of America)	
Radiosurgery/Tumor separation surgery	17:20 - 17:30
M. Bilsky (United States of America)	
Lateral	17:30 - 17:40
A. Parajon (Spain)	

Skull Base
16:50 - 18:20

Wicklow Meeting Room 3

Masterclass: Skull Base 2

Chairs:

V. Beneš (Czech Republic)
H. Schroeder (Germany)

Management of vestibular schwannomas	16:50 - 17:05
I. Kanaan (Saudi Arabia)	
Anatomical preservation of the vestibular nerves: a novel technique for hearing and facial nerve preservation during surgical resection of vestibular schwannomas	17:05 - 17:20
A.S. Youssef (United States of America)	
Anterior petrosectomy approach	17:20 - 17:35
V. Agarwal (United States of America)	
Management of giant vestibular schwannomas	17:35 - 17:45
K. Turel (India)	
Neurocognitive impact of transpetrosal approaches	17:45 - 18:00
P.-H. Roche (France)	
Endoscopic supraorbital "keyhole" approach to suprasellar tumors	18:00 - 18:08
A. Mumliev (Ukraine)	
The Endoscopic Diving Technique in cranial base surgery: our experience	18:08 - 18:16
P. Veiceschi (Italy)	

Scientific Programme

Vascular Neurosurgery
16:50 - 18:30

Wicklow Meeting Room 4

Masterclass: Ischaemic Stroke

Chairs:

L. Regli (Switzerland)
J. Mura (Chile)

Endovascular recanalization	16:50 - 17:05
Decompressive craniectomy for ischaemic stroke	17:05 - 17:20
J. Beck (Germany)	
ECIC bypass for stroke prevention	17:20 - 17:35
L. Regli (Switzerland)	
Acute Recanalization for Stroke and Management of Complications	17:35 - 17:50
R. Tanikawa (Japan)	
Pre- and intraoperative application of navigated transcranial magnetic stimulation in patients with cerebral cavernous malformations	17:50 - 17:58
S. Ille (Germany)	
Establishing an aneurysm database for a stable cohort of patients and challenging the aneurysm: the TAG project	17:58 - 18:06
N. Mukerji (United Kingdom)	
Association of ACE gene with prevalence of intracranial aneurysms	18:06 - 18:14
V. Alg (United Kingdom)	
Clinical features of Moyamoya arteriopathy in Italy: preliminary results of GEN-O-MA study	18:14 - 18:22
F. Acerbi (Italy)	

Neuro-Oncology
16:50 - 17:55

Wicklow Meeting Room 5

Masterclass: New Concepts

Chairs:

Z. Ram (Israel)
K. O'Neill

Tumour classification by DNA-Methylation Analysis	16:50 - 17:05
A. von Deimling (Germany)	
Surgery for the gliomas	17:05 - 17:20
C. Watts (United Kingdom)	
Functional anatomy	17:20 - 17:35
C. Destrieux (France)	
Tumour treating fields	17:35 - 17:50
Z. Ram (Israel)	
Discussion on the topics above mentioned	17:50 - 17:55

Scientific Programme

Spinal Neurosurgery
17:40 - 18:20

Wicklow Meeting Room 1

Spine Parallel 2

Chairs:

D. Refai (United States of America)
J. Duff (Switzerland)

Spinal hemangiomas: diagnosis and management	17:40 - 17:48
P. Hitchon (United States of America)	
A new method for lumbosacral transitional vertebra and anatomic orientation of sacrum that could be applied as peroperative indicator for lumbosacral surgery	17:48 - 17:56
C. Atabey (Turkey)	
Chiari malformation in adults: outcome after surgical treatment, with a special attention for the results on headache	17:56 - 18:04
M. Babini (Italy)	
The impact of early (< 24h) surgical decompression on neurological recovery in thoracic spinal cord injury: a meta-analysis	18:04 - 18:12
P.V. ter Wengel (Netherlands)	
Early versus delayed decompression for traumatic high cervical spinal cord injury?	18:12 - 18:20
R. Rani (India)	

Neurotrauma & Critical Care
17:46 - 18:20

Ecocem Room

Neurotrauma & Critical Care Parallel 1

Chairs:

M. Smrčka (Czech Republic)

Two year follow up of acute complete spinal cord injury patients receiving autologous bone marrow-derived mononuclear stem cell	17:46 - 17:54
R. Rani (India)	
Intracranial pressure before and after cranioplasty - insights into intracranial physiology	17:54 - 18:02
A. Lilja-Cyron (Denmark)	
Management and outcome of recurrent chronic subdural hematoma - a single center experience and volumetric analysis	18:02 - 18:10
S. Ridwan (Germany)	
The effect of surgery on functional outcome of traumatic acute subdural hematoma: a living systematic review	18:10 - 18:18
T.A. van Essen (Netherlands)	
Intake of NOAC is associated with hematoma expansion of intracerebral hematomas after traumatic brain injury	18:18 - 18:26
J. Münch (Germany)	

Scientific Programme

Neuro-Oncology
17:55 - 18:20

Wicklow Meeting Room 5

Neuro-Oncology Parallel 3

Chairs:

Z. Ram (Israel)
K. O'Neill

Therapeutic and prognostic significance of c-Met, HGF and VEGFR2 in bevacizumab-treated glioblastomas B. Carvalho (Portugal)	17:55 - 18:03
Fluorescein sodium and YELLOW 560 nm filter in non- or faintly-enhancing gliomas K.-M. Schebesch (Germany)	18:03 - 18:11
Nano-temozolomide for nose-to-brain delivery in experimental model of glioblastoma: a new compound for clinical and pre-clinical studies F. Certo (Italy)	18:11 - 18:19

Scientific Programme

Saturday, 28 September 2019

Technology
08:30 - 10:00

Auditorium

New Technology

Chairs:

J. van Loon (Belgium)
P. Selviaridis (Greece)

Building artificial intelligence from brain connectivity R. Moran	08:30 - 08:40
Robotics in functional neurosurgery, the future C. Moran (Ireland)	08:40 - 08:50
High frequency eye tremor as a measure of level of consciousness C. Bolger (Ireland)	08:50 - 09:00
Robot assisted deep brain stimulation and stereo EEG L. Erőss (Hungary)	09:00 - 09:10
Technology for education A. Perin (Italy)	09:10 - 09:20
A deep learning algorithm for the automatic segmentation of meningiomas on magnetic resonance imaging A. Boaro (United States of America)	09:20 - 09:28
Fluorescein-guided resection of central nervous system tumors: preliminary results from the first 279 patients enrolled in the Fluocertum study F. Acerbi (Italy)	09:28 - 09:36
Advantages and limitations of augmented reality use in neurosurgery T. Urakov (United States of America)	09:36 - 09:44
Assessment of ultrasound as a diagnostic modality for detecting cervical spine fractures in Head injured patients D. Agrawal (India)	09:44 - 09:52
Simulation based consultations results in improved patient engagement and retention H. Oemke Madarash (United States of America)	09:52 - 10:00

Spinal Neurosurgery
08:30 - 10:00

Ecocem Room

Spine Parallel 3

Chairs:

N. Kononov (Russian Federation)
L. Novak (Hungary)

Scientific Programme

Minimally invasive transpedicular stabilisation of the TL spine: lessons learned P. Ilkov (Bulgaria)	08:30 - 08:40
Patient-specific template-guided versus free-hand lumbar pedicle screw implantation - a randomized controlled trial J.M. Spirig (Switzerland)	08:40 - 08:48
Posterior microsurgical decompression for the management cervical radiculopathies in elite rugby union players R. Nelson (United Kingdom)	08:48 - 08:56
5-year experience with an Enhanced Recovery after Surgery (ERAS) protocol to improve recovery after elective degenerative spine surgery M.L. Schröder (Netherlands)	09:04 - 09:12
The analysis of clinical characteristics and surgical results of upper lumbar disc herniations Y. Aydın (Turkey)	09:12 - 09:20
Objective functional assessment using the "Timed-Up and Go" test in patients with lumbar spinal stenosis M. Stienen (Switzerland)	09:28 - 09:36
Surgical outcome and efficacy of lumbar microdiscectomy technique with preserving of ligamentum flavum for recurrent lumbar disc herniations Y. Aydın (Turkey)	09:36 - 09:44
Operative therapy of spinal intradural arachnoid cysts in adults - clinical and radiological outcome M. Schmutzer (Germany)	09:44 - 09:52
Does the timing of surgery influence outcome in motor deficit secondary to lumbar degenerative disease? A meta-analysis R. Al-Mahfoudh (United Kingdom)	09:52 - 10:00

Neuro-Oncology
08:30 - 10:00

Wicklow Hall 1

Meningiomas

Chairs:

T. Santarius (United Kingdom)
D. Netuka (Czech Republic)

New approaches to biology & classification A. von Deimling (Germany)	08:30 - 08:40
Surgical considerations M. Jenkinson (United Kingdom)	08:40 - 08:50
SRS/Radiotherapy D. Fitzpatrick (Ireland)	08:50 - 09:00
Chemotherapy R. Soffietti (Italy)	09:00 - 09:10

Scientific Programme

Akt and mTOR signalling in WHO grade II and III meningiomas P. Baumgarten (Germany)	09:10 - 09:18
Neurosurgical resection of locally recurrent brain metastases A.F.C. Hulsbergen (United States of America)	09:18 - 09:26
HiSpots®: a high density, three dimensional model of glioblastoma using ex vivo surgical tissue J. Brown (United Kingdom)	09:26 - 09:34
Posterior fossa meningiomas: perioperative predictors of extent of resection, overall survival and progression-free survival M.V. Corniola (Switzerland)	09:34 - 09:42
Cholesterol granulomas of the petrous apex. Review of 30 cases and results of endoscopic endonasal surgery at long-term follow-up P. Gardner (United States of America)	09:42 - 09:50

Other
08:30 - 10:00

Wicklow Hall 2a

Young Neurosurgeons Session

Chairs:

N. Sampron (Spain)
F. Ringel (Germany)

What I wish I had known better before I started working as attending A.K. Demetriades (United Kingdom)	08:30 - 08:40
How many procedures are performed during neurosurgery residency in Europe? Data from a multi-national survey M. Stienen (Switzerland)	08:40 - 08:50
Pitfalls in neuro-oncological surgery A.S. Jakola (Sweden)	08:50 - 09:00
My worst complications and their management - neurovascular surgery N. Sampron (Spain)	09:00 - 09:10
Postoperative and intraoperative complications management in endoscopic endonasal skull base surgery: neurovascular injury, persistent CSF fistula V. Agarwal (United States of America)	09:10 - 09:20
Avoiding revision surgery after instrumented spine surgery: Proximal Junction, Kyphosis , hardware failure, infections R. Martin-Laez (Spain)	09:20 - 09:30
Discussion on the topics above mentioned	09:30 - 10:00

Scientific Programme

Other
08:30 - 10:00

Wicklow Hall 2b

Transparency

Chairs:

N. Foroglou (Greece)

Cognitive biases in neurosurgery: can we avoid them?	08:30 - 08:40
N. Gabrovsky (Bulgaria)	
Neurosurgical national audit program	08:40 - 08:50
A. Jenkins (United Kingdom)	
Large scale auditing	08:50 - 09:00
P. Theodosopoulos (United States of America)	
Transparency in publication	09:00 - 09:10
Importance of mortality & morbidity meetings	09:10 - 09:20
K. Turel (India)	
Discussion on the topics above mentioned	09:20 - 09:30
Are your operation notes meeting Royal College of surgeons standards? (an audit & qip)	09:30 - 09:38
P.-H. Wu (United Kingdom)	
Current status of the European Board/UEMS examination in neurosurgery (fellowship of the European Board of Neurological Surgery)	09:38 - 09:46
P.C. Whitfield (United Kingdom)	
Directly assessed health utilities in neuro-oncology via time-trade off and standard gambling: do health related quality of life data appropriately reflect the burden of disease?	09:46 - 09:54
V. Butenschoen (Germany)	

Skull Base
08:30 - 10:00

Wicklow Meeting Room 1

Skull Base

Chairs:

S. Jeyaretna (United Kingdom)
V. Beneš (Czech Republic)

Endoscopic endonasal approach to Craniopharyngiomas	08:30 - 08:40
P. Gardner (United States of America)	
European Pituitary Adenoma Surgery Survey (EU-PASS) - preliminary results	08:40 - 08:50
D. Netuka (Czech Republic)	
Complications avoidance in pituitary surgery	08:50 - 09:00
I. Kanaan (Saudi Arabia)	
Management of olfactory groove meningiomas	09:00 - 09:10
S. Sharif (Pakistan)	

Scientific Programme

'Enough lateral' approaches to skull base lesions V. Beneš (Czech Republic)	09:10 - 09:20
Does NF2 impact the surgical results of large vestibular schwannomas ? P.-H. Roche (France)	09:20 - 09:30
Meningiomas: skull base versus non-skull base T. Meling (Switzerland)	09:30 - 09:40
Transtentorial transpetrous approach to lesions anterior to the brainstem S. Jeyaretna (United Kingdom)	09:40 - 09:50
Unusual complications for skullbase surgery R. Nair (United Kingdom)	09:50 - 10:00

Technology
08:30 - 10:00

Wicklow Meeting Room 3

Neuronavigation

Chairs:

A.K. Demetriades (United Kingdom)

Usefulness of intraoperative low-field magnetic resonance ventriculography and cysternography during endoscopic operations P. Tabakow (Poland)	08:30 - 08:40
The 3D printer assisted modelling for preoperative planing of cerebrovascular aneurysms H.E. Aydin (Turkey)	08:40 - 08:50
Tips and tricks in neuronavigation R. Diez Valle (Spain)	08:50 - 09:00
Neuronavigation future - lessons from the past D. Sandeman (United Kingdom)	09:00 - 09:10
Employing simulated intraoperative Raman scattering microscopy for rapid intraoperative diagnosis of brain tumors J. Boddu (United States of America)	09:10 - 09:18
Length of postoperative hospital stay predicted by neural networks processing 101 654 operative reports in neurosurgery G. Danilov (Russian Federation)	09:18 - 09:26
In vivo brain tissue classification using Raman spectroscopy and machine learning models in subjects affected by supra-tentorial gliomas T. Sciortino (Italy)	09:26 - 09:34
Raman spectroscopy and machine-learning approach characterize the IDH genotype in vivo onto unprocessed surgical glioma specimens T. Sciortino (Italy)	09:34 - 09:42
USim: intraoperative ultrasound made easy and handy for neurosurgeons A. Perin (Italy)	09:42 - 09:50

Scientific Programme

Better communication with neurosurgical patients with 3D technology: a prospective study 09:50 - 09:58
A. Perin (Italy)

Other
08:30 - 09:30

Wicklow Meeting Room 4

EANS/CNS Masterclass: Transcontinental Perspectives in Neurosurgery

Chairs:

C. Thomé (Austria)
B. Jankowitz (United States of America)

Vascular/endovascular - how I strike a balance 08:30 - 08:45
B. Jankowitz (United States of America)

Tumor - Incorporating new approaches (LITT) and imaging 08:45 - 09:00
S. Danish (United States of America)

Contemporary assessment and treatment of pediatric hydrocephalus 09:00 - 09:15
D. Limbrick (United States of America)

Interbody approach selection in MIS degenerative/deformity surgery 09:15 - 09:30
P. Mummaneni (United States of America)

Other
08:30 - 10:00

Wicklow Meeting Room 5

Masterclass: AANS Masterclass

Chairs:

S. Kurpad (United States of America)
K. Arnaoutovic (United States of America)

Integrating stereotactic radiosurgery into treatment paradigms for Chordoma of the sacrum and mobile spine: A game changer 08:30 - 08:42
M. Bilsky (United States of America)

Vestibular Schwannoma: Can imaging predict postoperative outcome? 08:42 - 08:54
A.S. Youssef (United States of America)

Endoscopic fluorescence angiography applications in endonasal skull base surgery 08:54 - 09:06
P. Gardner (United States of America)

Intraoperative contrast-enhanced ultrasound 09:06 - 09:18
C. Hofstetter (United States of America)

Stereotactic laser amygdalohippocamptomy 09:18 - 09:30
J.T. Willie (United States of America)

Mri-guided laser interstitial therapy- where are we now? 09:30 - 09:42
S. Danish (United States of America)

Scientific Programme

Recurrent vestibular schwannomas: The missing piece of the puzzle P. Theodosopoulos (United States of America)	09:42 - 09:54
Discussion on the topics mentioned above	09:54 - 09:59

Other
09:30 - 10:00

Wicklow Meeting Room 4

Hydrocephalus and CSF Dynamics Parallel 2

Chairs:

C. Thomé (Austria)
B. Jankowitz (United States of America)

What is an optimal intracranial pressure? An analysis of 115 tele-sensor reservoir ICP recordings A. Pandit (United Kingdom)	09:30 - 09:38
Ultrasound guided insertion of the ventricular catheter in vp-shunt surgery: evaluation of accuracy and feasibility in a prospective cohort S. Leu (Switzerland)	09:38 - 09:46
Arachnoid webs - report of 54 consecutive cases V. Olesen (Denmark)	09:46 - 09:54
Neuroimaging in differential diagnosis of post-traumatic ventriculomegaly in vegetative state and minimally conscious state patients Y. Latyshev (Russian Federation)	09:54 - 10:02

Pediatric Neurosurgery
10:40 - 12:20

Auditorium

Tethered Cord in Children and Adults

Chairs:

E. AlShail (Saudi Arabia)
B. Pettorini (United Kingdom)

Tethered cord in children - when to operate	10:40 - 10:55
The results of the BASICS trial RCT for VP shunts M. Jenkinson (United Kingdom)	10:55 - 11:10
New dysraphic entities, an update for the adult neurosurgeon B. Pettorini (United Kingdom)	11:10 - 11:25
Presentation pending - check the Congress App for updates	11:25 - 11:40
Best Abstract in Pediatric Neurosurgery: Comparison of neurosurgical interventions after fetoscopic prenatal and microsurgical postnatal coverage of spina bifida aperta in childhood M.A. Kolodziej (Germany)	11:40 - 11:50

Scientific Programme

The 3D evolution of the normal cranium during the first 2 years of life H. Delye (Netherlands)	11:50 - 11:58
Modified dural incisions to preserve the 'DOMINANT' occipital sinus in adults: an anatomical study in avoiding the 'landmines' in the posterior fossa V.S. Shenoy (India)	11:58 - 12:06

General
12:20 - 12:55

Auditorium

Closing Ceremony & Awards Session

Chairs:

J. Lafuente (Spain)
C. Bolger (Ireland)

Presentation of the Braakman Award to Ashraf Elmahadi	12:20 - 12:22
Closing words from the EANS2019 Congress President C. Bolger (Ireland)	12:22 - 12:27
Invitation from the EANS2020 Congress President L. Rasulic (Serbia)	12:27 - 12:32
Closing words from the EANS President J. Lafuente (Spain)	12:32 - 12:37
Closing words from the new EANS President K. Schaller (Switzerland)	12:37 - 12:42