



18th WORLD CONGRESS OF NEUROSURGERY

WFNS 2023

Cape Town, South Africa • 4 – 8 December 2023

Programme

Monday, 04. December 2023*Opening Plenary Session*

17:00 - 19:00

Auditorium 1

Opening Ceremony and WFNS Awards**Welcome to South Africa & the 18th World Congress**

17:00 - 17:15

Performance: *My African Dream**Speaker:* Graham Fieggen (South Africa)*Speaker:* Jeff Ntalaja (Congo (Democratic Republic))*Speaker:* Nelson Oyesiku (United States)*Speaker:* Anthony Figaji (South Africa)**Welcome to Cape Town**

17:15 - 17:25

Speaker: Geordin Hill-Lewis (Cape Town, South Africa)**An Inspiration and Call to Action - Gift of the Givers**

17:25 - 17:55

Speaker: Imtiaz Ismail Sooliman (South Africa)**Tributes to members who have passed: Juha Hernesniemi, Mike Scott, Souad Bakhti, Samuila Sanoussi**

17:55 - 18:10

Speaker: Jacques Morcos (United States)*Speaker:* Rick Boop (United States)*Speaker:* Nabila Tighilt (Algiers, Algeria)*Speaker:* Aminath Kelani (Niger)**Madjid Samii Award**

18:10 - 18:20

Awardee: Albert Rhoton Jr. (United States)**Long service award**

18:20 - 18:25

Awardee: Basant Misra (India)**Scoville Award**

18:25 - 18:35

Speaker: Kenan Arnautovic (United States)*Awardee:* Kevin T. Foley (United States)**Atos Alves de Sousa Young Neurosurgeons Award**

18:35 - 18:45

Speaker: Fahd Derkaoui (Morocco)*Awardee:* Pedro Henrique Martins da Cunha (São Paulo, Brazil)*Awardee:* Anamaria Gheorghiu (Bucharesti, Romania)*Awardee:* Hervé Lekuya Monke (Uganda)*Awardee:* Bhushan Thombre (Bangalore, India)*Awardee:* Elizabeth Ogando-Rivas (United States)**Medal of Honour**

18:45 - 19:00

Awardee: Paolo Cappabianca (Italy)*Awardee:* Vinko Dolenc (Slovenia)*Awardee:* Imad Kanaan (Saudi Arabia)*Awardee:* Marc Sindou (France)

Tuesday, 05. December 2023*Breakfast Symposium*

07:00 - 08:30

R1.6A

MASTERCLASS IN ANATOMY: Anatomy committee*Chair:* Jacques Morcos (United States)**Introduction**

07:00 - 07:05

Anatomical Pearls in Neurovascular Surgery

07:05 - 07:20

Speaker: Jacques Morcos (United States)**Anatomical Variations: How to avoid aneurysm rupture?**

07:20 - 07:35

The Anatomy of the AVMs

07:35 - 07:50

Speaker: Giovanni Broggi (Italy)**Understanding of the Bypass Anatomy**

07:50 - 08:05

Speaker: Jorge Mura (Chile)**Final Remarks**

08:05 - 08:15

Breakfast Symposium

07:30 - 08:30

Ballroom East

MASTERCLASS IN ANATOMY: COMPLICATIONS IN ENDOSCOPIC SURGERY - LESSONS LEARNT!*Chair:* Joachim Oertel (Germany)*Chair:* Chandreshkhar Deopujari (India)**Introduction**

07:30 - 07:32

Speaker: Keki Turel (India)**Pitfalls in endoscopic endonasal skull base surgery from planning to reconstruction for surgeons with average experience**

07:32 - 07:37

Speaker: Ramez Kirillos (United Kingdom)**Pituitary macroadenoma surgery: How to avoid complications**

07:37 - 07:42

Speaker: Jose Landeiro (Brazil)**ICA rupture in a recurrent Chondrosarcoma during endoscopic endonasal resection**

07:42 - 07:47

Speaker: Henry Schroeder (Germany)**Endoscopic surgery related intraoperative hemorrhage**

07:47 - 07:52

Speaker: İhsan Solaroğlu (Turkey)**Endoscopic placement of Ommaya reservoir and removal of VPS in child a with craniopharyngioma**

07:52 - 07:57

Speaker: Llewellyn Padayachy (South Africa)**Minimal Invasive Lumbar Spinal Surgery Infection - A clinical Case**

07:57 - 08:02

Speaker: Marcos Masini (Brazil)**Limitations and disappointments of percutaneous full endoscopic lumbar disc surgery**

08:02 - 08:07

Speaker: Artem Gushcha (Russian Federation)**Discussion**

08:07 - 08:27

<i>Breakfast Symposium</i>		
07:30 - 08:30		R2.6A
MASTERCLASS IN ANATOMY: Vascular		
<i>Chair:</i> Carlos David (United States)		
<i>Chair:</i> Mehmet Erkan Üstün (Turkey)		
Keyhole Approaches to Ruptured Intracranial Aneurysms	07:30 - 07:40	
<i>Speaker:</i> Christos Profyris (Johannesburg, South Africa)		
Surgery for non-cancerous lesions of the cavernous sinus	07:40 - 07:50	
<i>Speaker:</i> Carlos David (United States)		
Aneurysms presenting with mass effect over the anterior optic pathways: microneurosurgery as the first choice	07:50 - 08:00	
<i>Speaker:</i> Jean G de Oliveira (Brazil)		
Surgical Treatment of Vertebrobasilar Insufficiency	08:00 - 08:10	
<i>Speaker:</i> Mehmet Erkan Üstün (Turkey)		
Neurovascular Surgical Training. Challenges and Opportunities. Experience from the longest running UK Neurovascular Fellowship	08:10 - 08:20	
<i>Speaker:</i> Christos Tolia (United Kingdom)		
Education in vascular neurosurgery	08:20 - 08:30	
<i>Speaker:</i> Abdessamad El-Azhari (Morocco)		
 <i>Breakfast Symposium</i>		
07:30 - 08:30		R2.6B
MASTERCLASS IN ANATOMY: Peripheral Nerve Surgery		
<i>Chair:</i> Yuval Shapira (Israel)		
Traumatic Nerve Injury Principles	07:30 - 07:38	
<i>Speaker:</i> Rajiv Midha (Canada)		
Entrapment Neuropathy of Upper Limb	07:38 - 07:46	
<i>Speaker:</i> Eric Zager (United States)		
Entrapment Neuropathy of Lower Limb	07:46 - 07:54	
<i>Speaker:</i> Amgad Hanna (United States)		
Rare and unusual nerve lesions-surgical challenges	07:54 - 08:02	
<i>Speaker:</i> Lukas Rasulic (Serbia)		
Post Traumatic Painful Neuroma	08:02 - 08:10	
<i>Speaker:</i> Chris Winfree (United States)		
Patient Selection	08:10 - 08:18	
<i>Speaker:</i> Nora Dengler (Germany)		
Neurolysis - how much is enough?	08:18 - 08:30	
<i>Speaker:</i> Yuval Shapira (Israel)		
 <i>Breakfast Symposium</i>		
07:30 - 08:30		R2.4A
MASTERCLASS IN ANATOMY: Endoscopic anatomy		
<i>Chair:</i> Domenico Solari (Italy)		
Endoscopic anatomy for the endonasal transsphenoidal approach	07:30 - 07:50	
<i>Speaker:</i> Waleed Azab (Kuwait)		
Anatomy for skull base endoscopy	07:50 - 08:10	
<i>Speaker:</i> Domenico Solari (Italy)		
Anatomy for neuroendoscopy	08:10 - 08:30	

Speaker: Alexander Micko (Austria)

Breakfast Symposium

07:30 - 08:30

R2.4B

MASTERCLASS IN ANATOMY: Neuro-oncology

Chair: Manfred Westphal (Germany)

Liquid Biopsy - a new element of surgical neuro-oncology ?

07:30 - 07:45

Speaker: Manfred Westphal (Germany)

Liquid biopsy to monitor treatment resistance and disease progression in neuro-oncology

07:45 - 08:00

Emerging roles of neuronal injury in driving Glioblastoma behaviour

08:00 - 08:15

Speaker: Ciaran Hill (United Kingdom)

Discussion

08:15 - 08:30

Breakfast Symposium

07:30 - 08:30

R1.4A

MASTERCLASS IN ANATOMY: CV Junction Symposium

Chair: Sandeep Vaishya (India)

Chair: Robin Pillay (Singapore)

Consensus & Recommendations on CVJ

07:30 - 07:45

Speaker: Massimiliano Visocchi (Italy)

Discussion

07:45 - 07:55

C1-2 Fixation

07:55 - 08:05

Speaker: Atul Goel (Mumbai, India)

Panel Discussion

08:05 - 08:20

Speaker: Kenan Arnautovic (United States)

Speaker: Mehmet Zileli (Turkey)

Speaker: Francesco Costa (Italy)

Breakfast Symposium

07:30 - 08:30

R1.4B

MASTERCLASS IN ANATOMY: Paediatric Spine

Cranio-cervical junction anatomy in children

07:30 - 08:00

Speaker: Richard Anderson (Ridgewood, United States)

Cervical-Lumbar spine anatomy in children

08:00 - 08:30

Speaker: Christopher Bonfield (United States)

Opening Plenary Session

08:30 - 10:00

Auditorium 1

Opening Plenary Session: Leadership Through Change

Chair: Graham Fieggen (South Africa)

Chair: Najia El Abbadi (Morocco)

Chair: Bello Shehu (Nigeria)

Introducing the WFNS 2023 scientific program

08:30 - 08:40

Speaker: Anthony Figaji (South Africa)

AFRICAN Chronicles: scramble, colonization, decolonization, misrule and resurgens

08:40 - 09:10

Speaker: Nelson Oyesiku (United States)

WFNS Foundation	09:10 - 09:20
<i>Speaker:</i> Basant Misra (India)	
Golden Globe Inspiration	09:20 - 09:30
<i>Speaker:</i> Kirsten Neuschafer (South Africa)	
<i>Kirsten Neuschafer (South Africa), winner of the 2022 Golden Globe Race, in conversation with Allan Taylor</i>	09:30 - 09:30
Women in Leadership	09:30 - 10:00
<i>Speaker:</i> Meg Whitman (United States)	
<i>Speaker:</i> Sarah Woodrow (Canada)	
<i>Speaker:</i> Salome Maswime (South Africa)	
<i>Speaker:</i> Beverly Cheserem (Kenya)	
<i>Meg Whitman (United States), former CEO of eBay and Hewlett Packard, in conversation with Sarah Woodrow (United States), Salome Maswime (South Africa) and Beverly Cheserem (Kenya).</i>	10:00 - 10:00
 <i>ePosters</i>	
09:30 - 16:30	
ePoster Area	
 <i>Refreshment Break</i>	
10:00 - 10:30	
Refreshment Break	
 <i>Plenary Session</i>	
10:30 - 13:00	
THE YOUNG AND THE RESTLESS: Training in Neurosurgery and our rising stars	
<i>Chair:</i> Patrick Lekgwara (Pretoria, South Africa)	
<i>Chair:</i> Michael Fehlings (Canada)	
Reflections on a career training neurosurgeons	10:30 - 10:45
<i>Speaker:</i> Madjid Sami (Germany)	
Training in new molecular techniques for brain tumours	10:45 - 11:00
<i>Speaker:</i> David Ellison (United States)	
Training needs in Paediatrics	11:00 - 11:15
<i>Speaker:</i> Wan Tew Sew (Singapore)	
Global spine education	11:15 - 11:30
<i>Speaker:</i> Mehmet Zileli (Turkey)	
Future-proofing: training and assessing the next generation of neurosurgeons	11:30 - 11:45
<i>Speaker:</i> Peter Whitfield (United Kingdom)	
The Gordian knot of microsurgical education	11:45 - 12:00
<i>Speaker:</i> Torstein Ragnar Meling (Denmark)	
Training beyond neurosurgeons	12:00 - 12:15
<i>Speaker:</i> Mohammed Raji Mahmud (Nigeria)	
Clinical training in Africa - a Kenyan perspective	12:15 - 12:30
<i>Speaker:</i> Mahmood Qureshi (Kenya)	
'What's the one thing?' I had to teach trainees only one thing... (Panel Discussion)	12:30 - 13:00
<i>Panelist:</i> John Ouma (South Africa)	
<i>Panelist:</i> Francesco Sala (Italy)	

Panelist: Gail Rosseau (United States)

Panelist: Najia El Abbadi (Morocco)

Panelist: Luis Borba (Brazil)

Panelist: Bello Shehu (Nigeria)

Luncheon Symposium

13:00 - 14:00

R1.6A

Assessing competence in training

Chair: Rohen Harrichandparsad (South Africa)

Chair: Peter Whitfield (United Kingdom)

Trustworthy trainees: decisions in the workplace

13:00 - 13:30

Speaker: Vanessa Burch (South Africa)

Discussion

13:30 - 14:00

Refreshment Break

13:00 - 14:00

Refreshment Break

Speciality Breakaways

14:00 - 16:00

Ballroom East

Global Neurosurgical Workforce: Current numbers, trends, and expansion strategies (with the WFNS Young Neurosurgeons)

Chair: Saksham Gupta (United States)

Chair: Camilla Grøver Aukrust (Oslo, Norway)

Introduction

14:00 - 14:10

Speaker: Saksham Gupta (United States)

Crucial collaborators: the vital role of nurses in global neurosurgery

14:10 - 14:20

Speaker: Rebecca Silvers (San Francisco, United States)

Enriching excellence: fostering diversity in the global neurosurgery workforce

14:20 - 14:30

Speaker: Gail Rosseau (United States)

Building bridges across continents; strengthening relations between the European Association of Neurosurgical Societies and non-European societies

14:30 - 14:40

Speaker: Andreas Demetriades (United Kingdom)

Advancing formal training and education opportunities in the Africa region

14:40 - 14:50

Speaker: Mbaye Thioub (Senegal)

Meeting the global demand for neurosurgeons; the imperative of women's recruitment

14:50 - 15:00

Speaker: Sylvia Shitsama (Kenya)

Characterizing the female neurosurgical workforce: a look at global trends

15:00 - 15:10

Speaker: Silvia Vaca (Palo Alto, United States)

An exemplar of achievement; the current landscape and future outlook of neurosurgery in Ethiopia

15:10 - 15:20

Speaker: Tsegazeab Laeke (Addis Ababa, Ethiopia)

FIENS and Global Neurosurgery Education

15:20 - 15:30

Speaker: Robert Dempsey (Madison, United States)

Building a career in global neurosurgery

15:30 - 15:40

Speaker: Michael Christopher Dewan (Nashville, United States)

Discussion

15:40 - 16:00

Speciality Breakaways

14:00 - 16:00

Ballroom West

Peripheral Nerve: Plexus Injuries and Reconstruction

Chair: Lukas Rasulic (Serbia)

Adult Brachial plexus injury

14:00 - 14:08

Speaker: Yuval Shapira (Israel)

Obstetric Brachial Plexus Injury

14:08 - 14:16

Complete Brachial Plexus Injury

14:16 - 14:24

Speaker: Line Jacques (United States)

Cortical Plasticity in Brachial Plexus Injury

14:24 - 14:32

Speaker: Justus Groen (Netherlands)

Case Discussion

14:32 - 14:40

Speaker: Yuval Shapira (Israel)

Speciality Breakaways

14:00 - 14:50

Auditorium 2

Skull Base: Pituitary tumours

Chair: Russell Lonser (United States)

Pituitary tumour case presentations

14:00 - 14:10

Speaker: John Jane Jr (United States)

Pituitary tumour case presentations

14:10 - 14:20

Speaker: Imad Kanaan (Saudi Arabia)

Pituitary tumour case presentations

14:20 - 14:30

Speaker: Mehdi Darmoul (Tunisia)

Pituitary tumour case presentations

14:30 - 14:40

Speaker: Joaquim Ensenat (Spain)

Case discussion

14:40 - 14:50

Speaker: Daniel Prevedello (United States)

Speciality Breakaways

14:00 - 16:00

R2.6A

Vascular Debates: Unruptured Aneurysms - Decision-Making. Clip or Coil?

Chair: Stefan Florian (Romania)

Unruptured middle cerebral artery aneurysm: microsurgery as gold standard

14:00 - 14:12

Speaker: Jaír Raso (Brazil)

Unruptured Aneurysms - Endo or Open? Keyhole or not?

14:12 - 14:24

Speaker: Peter Nakaji (United States)

Multiple aneurysms-Clip only the ruptured one?

14:24 - 14:36

Speaker: Stefan Florian (Romania)

Surgical management of posterior circulation aneurysms

14:36 - 14:48

Speaker: Amir Dehdashti (United States)

Endovascular treatment of ICA aneurysms

14:48 - 15:00

Speaker: M.Erhan Türkoğlu (Turkey)

Surgical management of failed endovascularly treated aneurysms 15:00 - 15:12

Speaker: Carlos David (United States)

Current changes in the management of unruptured intracranial aneurysms 15:12 - 15:24

Speaker: Andreas Raabe (Switzerland)

Endovascular treatment of posterior circulation aneurysms 15:24 - 15:36

Speaker: M.Erhan Türkoğlu (Turkey)

Unruptured aneurysm: Clipping of unruptured paraclinoidal aneurysm in the era of endovascular therapy 15:36 - 15:48

Speaker: Yong-Kwang Tu (Taiwan)

Speciality Breakaways

14:00 - 14:50

R2.6B

Neurotrauma I

Chair: Andrew Reisner (United States)

Chair: Andres Rubiano (Colombia)

Chair: Eve Tsai (Ottawa, Canada)

The Glasgow Coma Scale at 50 - fully conscious and still innovating 14:00 - 14:08

Speaker: Paul Brennan (United Kingdom)

Current state of the art of Traumatic Brain and Spinal Cord Injuries 14:08 - 14:16

Speaker: Gregory Hawryluk (United States)

Protocols and protocolisation improve outcome from severe TBI in resource-limited settings 14:16 - 14:24

Speaker: Randall Chesnut (United States)

What is the importance of TBI registries? - The German example 14:24 - 14:32

Speaker: Andreas Unterberg (Germany)

Outcome determinants of severe TBI in resource-constrained settings: Mind the Gap 14:32 - 14:40

Speaker: Hal Mangat (United States)

Speciality Breakaways

14:00 - 16:00

R2.4A

Neuro-endoscopy

Chair: Jay Riva Cambrin (Canada)

Chair: Oumar Diallo (Burkina Faso)

Endoscopic treatment of hydrocephalus 14:00 - 14:12

Speaker: Oumar Diallo (Burkina Faso)

Long-term results after ETV 14:12 - 14:24

Speaker: Henry Schroeder (Germany)

Cost-effectiveness and the economics of ETV+CPC versus shunting for infant hydrocephalus 14:24 - 14:36

Speaker: Jay Riva Cambrin (Canada)

Secondary Third Ventriculostomy 14:36 - 14:48

Speaker: Chandreshkhar Deopujari (India)

ETV complication avoidance 14:48 - 15:00

Speaker: Salman Sharif (Pakistan)

Hemostasis techniques in intraventricular neuroendoscopy 15:00 - 15:12

Speaker: Henry Schroeder (Germany)

Stalk preservation or sacrifice in endoscopic endonasal resection of craniopharyngiomas 15:12 - 15:24

Speaker: Chandreshkhar Deopujari (India)

Speciality Breakaways

14:00 - 16:00

R2.4B

Neuro-oncology - Glioma

Chair: Jörg-Christian Tonn (Germany)

The new RANOresect classification system for extent of resection in glioblastoma 14:00 - 14:15

Speaker: Jörg-Christian Tonn (Germany)

The technique of supratotal resection in gliomas 14:15 - 14:30

Speaker: Lorenzo Bello (Italy)

Glioma surgery: Maximizing resection & protecting boundaries for improved outcomes and recovery 14:30 - 14:45

Speaker: Michael Ivan (United States)

Awake surgery - our experience over 20 years 14:45 - 15:00

Speaker: Keki Turel (India)

Standardized tissue sampling and processing during glioma resection: Recommendations of the international RANOresect group as a platform for multiinstitutional trials 15:00 - 15:15

Speaker: Jörg-Christian Tonn (Germany)

Basics of Brain Mapping and Neural Plasticity for Surgical Management of Gliomas 15:15 - 15:30

Speaker: Matthew Tate (United States)

Discussion 15:30 - 15:45

Speciality Breakaways

14:00 - 14:40

R1.4A

Spine: Lumbar Spinal Stenosis and Degenerative Lysthesis: Decompression or Fusion

Chair: Mehmet Zileli (Turkey)

Chair: Toshihiro Takami (Japan)

MIS Decompression 14:00 - 14:10

Speaker: Rick Fessler (Chicago, United States)

MIS fusion 14:10 - 14:20

Speaker: Nikolay Peev (United Kingdom)

Case discussion 14:20 - 14:25

Speaker: Toshihiro Takami (Japan)

Discussion 14:25 - 14:40

Speciality Breakaways

14:00 - 16:00

R1.4B

Paediatrics

Chair: Isaias Pérez Negrete (Morelia, Mexico)

Chair: Amal Abou-Hamden (Australia)

Proton beam radiotherapy in craniopharyngioma 14:00 - 14:15

Speaker: Tom Merchant (United States)

Scoliosis and neurosurgical lesions: What do I do with the Chiari, 14:15 - 14:30

syrinx, or tethered cord?	
<i>Speaker:</i> Christopher Bonfield (United States)	
IONM loss in aborted pediatric deformity surgery: When is it safe to return to the operating room?	14:30 - 14:45
<i>Speaker:</i> Richard Anderson (Ridgewood, United States)	
Craniocervical junction surgery in children	14:45 - 15:00
<i>Speaker:</i> Chris Derham (United Kingdom)	
Latest developments in IONM in paediatric neurosurgery	15:00 - 15:15
<i>Speaker:</i> Francesco Sala (Italy)	
Cushing is also Ghanaian: one girl's story	15:15 - 15:30
<i>Speaker:</i> Teddy Totimeh (Ghana)	
Traumatic Brain Injury Biomarkers in Children: Opportunities and Challenges	15:30 - 15:45
<i>Speaker:</i> Andrew Reisner (United States)	
Q&A	15:45 - 16:00
<i>Speciality Breakaways</i> 14:00 - 16:00	R1.6A
Functional: Spasticity seminar	
<i>Chair:</i> Marc Sindou (France)	
<i>Chair:</i> Nico Enslin (South Africa)	
Introduction	14:00 - 14:05
<i>Speaker:</i> Nico Enslin (South Africa)	
SPN in spasticity	14:05 - 14:25
<i>Speaker:</i> Marc Sindou (France)	
SDR in spasticity	14:25 - 14:45
<i>Speaker:</i> Nico Enslin (South Africa)	
ITB in spasticity	14:45 - 15:05
<i>Speaker:</i> Ahmed Alkhani (Saudi Arabia)	
Individualising management in spasticity	15:05 - 15:25
<i>Speaker:</i> Nico Enslin (South Africa)	
Discussion	15:25 - 15:40
<i>Speciality Breakaways</i> 14:40 - 16:00	R1.4A
Spine: Ambassador Session: Innovations in lumbar spine surgery	
<i>Chair:</i> Rully Hanafi Dahlan (Indonesia)	
<i>Chair:</i> Amit Amit (United Kingdom)	
<i>Chair:</i> Jake Timothy (United Kingdom)	
Current Status of Endoscopic decompression and fusion	14:40 - 14:50
<i>Speaker:</i> Hyeun Sung Kim (Korea, Republic of)	
Minimally invasive Extraforaminal lumbar Interbody Fusion using K-wire-Guided Cannulated Cages: State of the Art	14:50 - 15:00
<i>Speaker:</i> José Antonio Soriano (Mexico)	
Over the Top Lumbar Surgery	15:00 - 15:10
<i>Speaker:</i> Ciaran Bolger (Ireland)	
Apple Watch- lumbar spine objective measures as definition of	15:10 - 15:20

disability	
<i>Speaker:</i> Corrinna Zygourakis (United States)	
Lumbar Spine Surgery in LMIC	15:20 - 15:30
<i>Speaker:</i> Musa Ibrahim (Nigeria)	
Discussion	15:30 - 15:50
<i>Speciality Breakaways</i> 14:50 - 16:00	R2.6B
Neurotrauma II	
<i>Chair:</i> Kostas Fountas (Greece)	
<i>Chair:</i> Eiichi Suehiro (Narita, Japan)	
<i>Chair:</i> Peter Hutchinson (Cambridge, United Kingdom)	
<i>Chair:</i> Kevin Wang (United States)	
Incomplete Atlanta-Occipital Dissociation: Thoughts on Diagnosis and Management	14:50 - 14:58
<i>Speaker:</i> Jacob Lepard (Houston, United States)	
Complement Inhibition:Attacking Overshooting Inflammation after Traumatic Brain Injury	14:58 - 15:06
<i>Speaker:</i> Wilco Peul (Netherlands)	
Dissecting the Role of Complement in Triggering Acute TBI and Its Progression to Chronic Encephalopathy	15:06 - 15:14
<i>Speaker:</i> Ali Alawieh (United States)	
Cerebral Microdialysis in TBI- research or prognostic tool	15:14 - 15:22
<i>Speaker:</i> Deepak Gupta (India)	
Cerebrovascular autoregulation: insights from bench and bedside	15:22 - 15:30
<i>Speaker:</i> Bart Depreitere (Belgium)	
Utility of brain tissue oxygen monitoring (PbtO2) in neurocritical care TBI patients	15:30 - 15:38
<i>Speaker:</i> Alfonso Lagares (Spain)	
Anticoagulation and thrombophylaxis after Traumatic Brain Injury	15:38 - 15:46
<i>Speaker:</i> Antonio Belli (United Kingdom)	
<i>Speciality Breakaways</i> 15:00 - 15:50	Auditorium 2
Skull Base: Cavernous Sinus Tumours (Open vs Endoscopic)	
<i>Chair:</i> Jacques Morcos (United States)	
Cavernous sinus tumour case presentations	15:00 - 15:08
<i>Speaker:</i> Carlos Eduardo da Silva (Brazil)	
Cavernous sinus tumour case presentations	15:08 - 15:16
<i>Speaker:</i> Joao Paulo Almeida (Brazil)	
Cavernous sinus tumour case presentations	15:16 - 15:24
<i>Speaker:</i> David Roytowski (South Africa)	
Cavernous sinus tumour case presentations	15:24 - 15:32
<i>Speaker:</i> Francesco Doglietto (Italy)	
Cavernous sinus tumour case presentations	15:32 - 15:40
<i>Speaker:</i> Linda Bi (United States)	
Cavernous sinus tumour case presentations	15:40 - 15:48
<i>Speaker:</i> Nathan Zwagerman (United States)	

<i>Other</i>		
16:00 - 18:00		Auditorium 1
WFNS Atos Alves de Sousa Award Committee (Young Neurosurgeons Awards Session)		
<i>Chair:</i> Fahd Derkaoui (Morocco)		
<i>Chair:</i> Alexandra Golby (Boston, United States)		
	A Journey at the WFNS YNS AWARDS COMMITTEE	16:00 - 16:10
<i>Speaker:</i> Fahd Derkaoui (Morocco)		
	POSTERIOR SUPERIOR INSULA DEEP BRAIN STIMULATION FOR PERIPHERAL NEUROPATHIC PAIN: EFFECTS AND INFLUENCE OF THE TARGET	16:10 - 16:25
<i>Abstract Presenter:</i> Pedro Henrique Martins da Cunha (São Paulo, Brazil)		
	Revolutionizing Brain Tumor Diagnosis: An insight into CNN Model's Efficacy in CNS Tumor Analysis with Squash smear cytology	16:25 - 16:40
<i>Abstract Presenter:</i> Bhushan Thombre (Bangalore, India)		
	Life-style and Metabolic Factors and Risk for Glioma: A population-based prospective study (The Cohort of Norway - CONOR)	16:40 - 16:50
<i>Abstract Presenter:</i> Anamaria Gheorghiu (Bucharesti, Romania)		
	Metagenomic Sequencing of the Skin Microbiota of the scalp predicting the risk of developing Surgical Site Infections following TBI surgery	16:50 - 17:05
<i>Abstract Presenter:</i> HERVE MONKA LEKUYA (KAMPALA, Uganda)		
	Prediction of tumor-associated antigens using radiogenomics	17:05 - 17:20
<i>Abstract Presenter:</i> Elizabeth Ogando-Rivas (United States)		
	Discussion	17:20 - 17:45
	Conclusion and remarks	17:45 - 17:55
<i>Speaker:</i> Alexandra Golby (Boston, United States)		
 <i>Refreshment Break</i>		
16:00 - 16:30		
Refreshment Break		
 <i>Abstract Presentations</i>		
16:30 - 18:30		
		Ballroom East
VASCULAR I		
<i>Chair:</i> Allan Taylor (South Africa)		
<i>Chair:</i> Bernard Bendok (United States)		
<i>Chair:</i> Aleš Hejčl (Czech Republic)		
	Using Computational Flow Dynamics to Predict Risk of Aneurysmal Rupture: A Retrospective Analysis of a 15-Year Database of Cerebral aneurysms	16:30 - 16:39
<i>Abstract Presenter:</i> Peter Fawzy (Gold Coast, Australia)		
	Risk Factors for Contrast Induced Encephalopathy Post Elective Endovascular Treatment of Cerebral Aneurysms: Insights into Patient Characteristics and Procedural Factors	16:39 - 16:48
<i>Abstract Presenter:</i> Peter Fawzy (Gold Coast, Australia)		
	Q+A	16:48 - 16:51
	Natural Course of Ruptured but Untreated Intracranial Aneurysms: A Multicenter 2-Year Follow-Up Study	16:51 - 16:55
<i>Abstract Presenter:</i> Xinyu Yang (Tianjin, China)		

From Conservative to Interventional Management in Treating Unruptured Intracerebral Aneurysms	16:55 - 16:59
<i>Abstract Presenter:</i> Basil Gruter (Switzerland)	
Blood Blister Like Aneurysms- General considerations and Management	16:59 - 17:03
<i>Abstract Presenter:</i> Leonidas Quintana (Vina del Mar, Chile)	
Metallic artifice reduction angiogrammetry versus digital subtraction angiography for the evaluation of occlusion of intracranial aneurysms after endovascular management	17:03 - 17:07
<i>Abstract Presenter:</i> Luis Checca (Monterrey, Mexico)	
Q+A	17:07 - 17:13
Intra-aneurysmal contrast stasis during intraoperative digital subtraction angiography: A predictor of thrombosis of intracranial aneurysm remnant after clipping?	17:13 - 17:17
<i>Abstract Presenter:</i> Basil Gruter (Switzerland)	
Risk Assessment of Intracranial Aneurysm Remnants after Microsurgical Clipping Based on 3D-Digital Subtraction Angiography	17:17 - 17:21
<i>Abstract Presenter:</i> Basil Gruter (Switzerland)	
Application of SQUIRE-compliant to Intracranial Aneurysm to Improve the Patient Management Decision Making Quality for Surgical Clipping Versus Endovascular Coiling	17:21 - 17:25
<i>Abstract Presenter:</i> Yao Christian Hugues Dokponou (Rabat, Morocco)	
Clipping or Coiling of Brain Aneurysm-Expertise and Bias Influencing Patient Outcome	17:25 - 17:29
<i>Abstract Presenter:</i> LAXMINARAYAN TRIPATHY (Kolkata, India)	
Surgical Versus Endovascular Aneurysm Repair After Subarachnoid Hemorrhage: A Single-Center Experience Over 12 Years	17:29 - 17:33
<i>Abstract Presenter:</i> Per Kristian Eide (Oslo, Norway)	
Combined microsurgical and endovascular intracranial aneurysm treatment - interdisciplinary experience with a true hybrid approach and systematic review of the literature	17:33 - 17:37
<i>Abstract Presenter:</i> Basil Gruter (Switzerland)	
Q+A	17:37 - 17:43
No weekend effects on mortalities in patients receiving clipping or coiling for ruptured aneurysmal subarachnoid hemorrhage in Thailand	17:43 - 17:47
<i>Abstract Presenter:</i> Phumtham Limwattananon (Khon Kaen, Thailand)	
Complex MCA Aneurysms - Management Strategies	17:47 - 17:51
<i>Abstract Presenter:</i> Dwarakanath Srinivas (India)	
Basilar Artery Perforator Aneurysm- A Diagnostic and Therapeutic Conundrum	17:51 - 17:55
<i>Abstract Presenter:</i> Pragyam Sarma (New Delhi, India)	
A Retrospective Analysis of Fifteen-Year Database of Consecutive Intracranial Aneurysms: Evaluation of 1450 Aneurysms	17:55 - 17:59
<i>Abstract Presenter:</i> Dianne Le (Southport, Australia)	
Cerebral aneurysms with extracranial carotid pathology: disagreements in approaches and current concepts of management	17:59 - 18:03
<i>Abstract Presenter:</i> Nikolay Kobiakov (Russian Federation)	
Q+A	18:03 - 18:09

<i>Abstract Presentations</i>	
16:30 - 18:30	Ballroom West
VASCULAR II	
<i>Chair:</i> Peter Nakaji (United States)	
<i>Chair:</i> Marco Fontanella (Italy)	
<i>Chair:</i> Vincent Ng (Singapore)	
In vivo human evidence for impaired glymphatic function after subarachnoid hemorrhage	16:30 - 16:39
<i>Abstract Presenter:</i> Per Kristian Eide (Oslo, Norway)	
Relationship between oral and intestinal bacteria and the onset of subarachnoid hemorrhage: SAH-FLORA Japan study, Protocol and preliminary result	16:39 - 16:49
<i>Abstract Presenter:</i> Akio Morita (Tokyo, Japan)	
Q+A	16:49 - 16:52
Safety and effectiveness of using Dual Antiplatelet in Ruptured Aneurysm: A case control Study	16:52 - 16:56
<i>Abstract Presenter:</i> Nourou Dine Adeniran Bankole (Tours, France)	
DIND incidence in patients with aSAH and enteral volume loss with and without osmotic laxatives	16:56 - 17:00
<i>Abstract Presenter:</i> Vassili Crispi (United Kingdom)	
Outcome of aneurysmal SAH in elderly patients and predictive factors; review of 10 years' data of a single quaternary centre	17:00 - 17:04
<i>Abstract Presenter:</i> Gerda Reischer (United Kingdom)	
The Relationship Between Cytokines in the Cerebrospinal Fluid and Plasma, and their association with Neurological Outcomes in Subarachnoid Haemorrhage Patients	17:04 - 17:08
<i>Abstract Presenter:</i> Soham Bandyopadhyay (United Kingdom)	
Trends in mortality and hospitalization due to spontaneous subarachnoid hemorrhage in Brazil	17:08 - 17:12
<i>Abstract Presenter:</i> Pedro Tadao Hamamoto Filho (Botucatu, Brazil)	
Q+A	17:12 - 17:16
Surgery for large and complex arteriovenous malformations	17:16 - 17:20
<i>Abstract Presenter:</i> Atul Goel (Mumbai, India)	
Microsurgical management of brain arteriovenous malformations(AVMs) in North Okkalapa General Hospital, Myanmar	17:20 - 17:24
<i>Abstract Presenter:</i> Su Myat Mo (Yangon, Myanmar)	
Management of Brain Arterio-Venous Malformations: A Review	17:24 - 17:28
<i>Abstract Presenter:</i> Nitesh Naranbhai (South Africa)	
Intraoperative Neurophysiological Monitoring in Surgical Treatment of Spinal Dura Arteriovenous Fistulas: Long-Term Outcome	17:28 - 17:32
<i>Abstract Presenter:</i> Fabio Torregrossa (Palermo, Italy)	
Q+A	17:32 - 17:35
Surgical neoangiogenesis in patients with Moyamoya disease: the balance between direct and indirect revascularization	17:35 - 17:44
<i>Abstract Presenter:</i> Nikolay Kobiakov (Russian Federation)	
INTRAOPERATIVE ARTERIAL SPIN LABELING MRI IN SURGICAL	17:44 - 17:53

REVASCULARIZATION

Abstract Presenter: Anna Shulgina (Moscow, Russian Federation)

Q+A

17:53 - 17:56

Cerebral revascularization by EC-IC bypass in ischemic conditions of different etiologies other than MMD

17:56 - 18:00

Abstract Presenter: Forhad Chowdhury (Dhaka, Bangladesh)

Treatment of late stage Moya Moya Disease

18:00 - 18:04

Abstract Presenter: AMIT KUMAR GHOSH (KOLKATA, India)

Q+A

18:04 - 18:07

Abstract Presentations

16:30 - 18:30

Auditorium 2

SPINE I

Chair: Miroslav Vukić (Croatia)

Chair: Ian Vlok (South Africa)

Chair: Stephen Viljoen (United States)

Conservative management of fibrous non-union of type II odontoid fractures - a multi-institutional study

16:30 - 16:39

Abstract Presenter: Carmen Vleggeert-Lankamp (Leiden, Netherlands)

The role of tertiary neurosurgical intervention in non-missile penetrating injuries of the spine

16:39 - 16:48

Abstract Presenter: Paseka Seroto (Cape Town, South Africa)

Comparative Analysis of kyphotic-deformity correction and implant-failure in Thoracolumbar Fractures management with Percutaneous Long-Segment versus Short-Segment Pedicle Screws Fixation

16:48 - 16:57

Abstract Presenter: Zubair Mustafa Khan (Lahore, Pakistan)

Q+A

16:57 - 17:00

Minimally Invasive Versus Open Posterior-Approach Fixation in Lumbar Fracture Injuries: A Propensity-Score Matched Analysis

17:00 - 17:04

Abstract Presenter: Ankit Mehta (Chicago, United States)

Survival Following Fusion Compared to Nonoperative Bracing Following Traumatic Occipitocervical Dissociation: A Propensity-Score Matched Analysis

17:04 - 17:08

Abstract Presenter: Ankit Mehta (Chicago, United States)

Central or axial atlantoaxial dislocation and craniovertebral junction alterations - A review of 393 cases treated over 12 years

17:08 - 17:12

Abstract Presenter: Atul Goel (Mumbai, India)

C0-C2 Fracture: Is Occipitocervical Fixation Avoidable? Surgical Treatment And Clinical Results Of 209 Patients Operated In A Single Centre Institute

17:12 - 17:16

Abstract Presenter: Pier Paolo Berti (Bolzano, Italy)

Anterior odontoid screw fixation following type II and shallow type III fracture - Hounsfield unit prediction protocol of fusion rates

17:16 - 17:20

Abstract Presenter: Petr Vachata (Ústí nad Labem, Czech Republic)

Q+A

17:20 - 17:25

SHORT-SEGMENT POSTERIOR FIXATION WITH PEDICLE SCREWS AT THE LEVEL OF THE FRACTURE (SHORT SAME-SEGMENT FIXATION -SSSF) FOR UNSTABLE THORACOLUMBAR FRACTURES

17:25 - 17:29

Abstract Presenter: SURATH SANJAYA KUMARA MUNASINGHE ARACHCHIGE (RATNAPURA, Sri Lanka)

Comparison of Short Segment Percutaneous Transpedicular Fixation with and without the Inclusion of Fractured Vertebrae in Thoracolumbar Fractures 17:29 - 17:33

Abstract Presenter: Syed Ahmad Faizan (Lahore, Pakistan)

An institutional review of percutaneous stabilization versus open stabilization of unstable thoracolumbar fractures 17:33 - 17:37

Abstract Presenter: Adrian Kelly (Pretoria, South Africa)

Thoracholumbar fracture, short fixation with pedicular screw in vertebral fracture 17:37 - 17:41

Abstract Presenter: Fatos Olldashi (Tirana, Albania)

Q+A 17:41 - 17:44

Kyphoplasty versus Posterior Spinal Fixation in Treatment of Traumatic Burst Thoracolumbar Fractures; A Randomized Clinical Trial 17:44 - 17:48

Abstract Presenter: Fariborz Ghaffarpasand (Shiraz, Iran)

Craniocervical junction injuries: A systematic review of recommendations, guidelines, and consensus statements 17:48 - 17:52

Abstract Presenter: Jay J. Park (United States)

Closed manual reduction of traumatic facet dislocations of the cervical spine: operative video and technical nuances 17:52 - 17:56

Abstract Presenter: Vincy Mathew (United States)

Revisiting the role of MRI in patients with stable traumatic cervical spine injuries on CT: is routine use warranted? 17:56 - 18:00

Abstract Presenter: Sahar Sorek (United States)

Q+A 18:00 - 18:03

An anti-inflammatory and neuroprotective biomimetic nanoplatfom for repairing spinal cord injury 18:03 - 18:12

Abstract Presenter: Xiang Gao (China)

Improving the Translation of Stem Cell Therapy for Spinal Cord Injury 18:12 - 18:16

Abstract Presenter: Eve Tsai (Ottawa, Canada)

ADMINISTRATION EFFECT OF NASAL ACTH4-10PRO8-GLY9-PRO10 ON THE EXPRESSION OF MALONDIALDEHYDE AND F2-ISOPROSTANE IN SPRAGUE DAWLEY RAT SPINAL CORD INJURY MODEL 18:16 - 18:20

Abstract Presenter: Rifqi Aulia Destiansyah (Indonesia)

Nerve Growth Factor-Laden Anisotropic Silk Nanofiber Hydrogels to Regulate Neuronal/Astroglial Differentiation for Spinal Cord Repair 18:20 - 18:24

Abstract Presenter: Xiang Gao (China)

Q+A 18:24 - 18:27

Abstract Presentations

16:30 - 18:30

R2.6A

SPINE II

Chair: Abderrahmane Sidi Said (Algeria)

Chair: Richard Anderson (Ridgewood, United States)

Chair: Neil Buxton (United Kingdom)

Risk factors for fusion failure in children undergoing occiput to C2 16:30 - 16:39

	rigid instrumentation and fusion	
<i>Abstract Presenter:</i>	Richard Anderson (Ridgewood, United States)	
	Surgical management of long-level intramedullary spinal cord tumors	16:39 - 16:48
<i>Abstract Presenter:</i>	Tao Fan (Beijing, China)	
	Surgical treatment of intramedullary spinal cord tumors: experience of more than 1000 cases	16:48 - 16:57
<i>Abstract Presenter:</i>	Nikolay Konovalov (Moscow, Russian Federation)	
	Q+A	16:57 - 17:01
	Evaluation of a large, monocentric surgical series of adult and pediatric Chiari type 1: do consensus documents fit everyday practice?	17:01 - 17:05
<i>Abstract Presenter:</i>	Laura Valentini (Milano, Italy)	
	Non-invasive intracranial pressure waveform morphology analysis in Chiari type 1 disease patients submitted to foramen magnum decompression	17:05 - 17:09
<i>Abstract Presenter:</i>	Eloy Rusafa Neto (São Paulo, Brazil)	
	Q+A	17:09 - 17:15
	SAGITTAL BALANCE PARAMETERS IN ACHONDROPLASIA	17:15 - 17:19
<i>Abstract Presenter:</i>	Carmen Vleggeert-Lankamp (Leiden, Netherlands)	
	Chordoma: a systematic review of the epidemiology and clinical prognostic factors predicting progression-free and overall survival	17:19 - 17:23
<i>Abstract Presenter:</i>	Wilco (Willem) Peul (Leiden & The Hague, Netherlands)	
	Spectrum of compressive spinal masses diagnosed in HIV-infected patients managed at a single tertiary hospital	17:23 - 17:27
<i>Abstract Presenter:</i>	Kuzolunga Xulu (Durban, South Africa)	
	The significance of the postoperative syrinx	17:27 - 17:31
<i>Abstract Presenter:</i>	Carl Bruce (Jamaica)	
	Q+A	17:31 - 17:36
	Intraoperative neurophysiology monitoring for Intradural Extramedullary Tumours - Is it useful ?	17:36 - 17:40
<i>Abstract Presenter:</i>	Pragnesh Bhatt (Aberdeen, United Kingdom)	
	The clinico-pathological profile and outcomes of spinal empyema	17:40 - 17:44
<i>Abstract Presenter:</i>	Ruald de Vos (Durban, South Africa)	
	EFFICACY OF TRANEXAMIC ACID IN REDUCING BLOOD LOSS IN MAJOR LUMBAR SPINE SURGERY; RANDOMIZED CONTROLLED TRIAL IN A SUB-SAHARAN CENTRE	17:44 - 17:48
<i>Abstract Presenter:</i>	Francis Campbell (Enugu, Nigeria)	
	Epidemiological trends of pyogenic spondylodiscitis in Germany: An EANS Spine Section Study	17:48 - 17:52
<i>Abstract Presenter:</i>	Andreas Kramer (Mainz, Germany)	
	Q+A	17:52 - 17:58

Abstract Presentations

16:30 - 18:30

R2.6B

NEUROTRAUMA I

Chair: Andreas Unterberg (Germany)

Chair: Gregory Hawryluk (United States)

Chair: Andres Buki (Hungary)

Comparative Effectiveness of Decompressive Craniectomy versus Craniotomy for Traumatic Acute Subdural Hematoma: a CENTER-TBI study

16:30 - 16:39

Abstract Presenter: Wilco (Willem) Peul (Leiden & The Hague, Netherlands)

Prevalence, risk factors and prognosis of ultra-early, early and late seizures after traumatic brain injury: a CENTER-TBI study

16:39 - 16:48

Abstract Presenter: Edoardo Viaroli (Cambridge, United Kingdom)

DEXAMETHASONE VERSUS SURGERY FOR CHRONIC SUBDURAL HEMATOMA

16:48 - 16:57

Abstract Presenter: Wilco (Willem) Peul (Leiden & The Hague, Netherlands)

Q+A

16:57 - 17:01

Prognostic factors of chronic subdural hematoma

17:01 - 17:05

Abstract Presenter: DJIMRABEYE ALNGAR (RABAT, Morocco)

Mini-craniotomy technique with strict perioperative management protocol for chronic subdural hematoma evacuation can lead to near-zero recurrence and complication rates

17:05 - 17:09

Abstract Presenter: Sahar Sorek (United States)

EVACUATION PLUS ADJUVANT CISTERNOSTOMY VS EVACUATION ALONE FOR ACUTED SUB DURAL HAEMATOMA IN MODERATE TO SEVERE TRAUMATIC BRAIN INJURY PATIENTS

17:09 - 17:13

Abstract Presenter: SURATH SANJAYA KUMARA MUNASINGHE ARACHCHIGE (RATNAPURA, Sri Lanka)

Does the skull Hounsfield unit predict shunt dependent hydrocephalus after decompressive craniectomy for traumatic acute subdural hematoma?

17:13 - 17:17

Abstract Presenter: Jin Hwan Cheong (Guri, Korea, Republic of)

Clinical application of augmentative craniotomy, a novel technique for the treatment of intracranial hypertension

17:17 - 17:21

Abstract Presenter: Luigi Valentino Berra (Rome, Italy)

Q+A

17:21 - 17:26

Paradigm Shift in Surgery for Neurotrauma: Center-TBI Analysis of t-ASDH

17:26 - 17:30

Abstract Presenter: Wilco (Willem) Peul (Leiden & The Hague, Netherlands)

Floating decompressive craniotomy - an alternative to decompressive craniectomy in a selected subgroup of patients - a mono-institutional prospective study

17:30 - 17:34

Abstract Presenter: Jan Mracek (Czech Republic)

Mortality Reduction of Surgery in t-ASH since the 19th Century: Systematic Review with Dramatic Effect: Is Surgery the Obvious Parachute?

17:34 - 17:38

Abstract Presenter: Wilco (Willem) Peul (Leiden & The Hague, Netherlands)

Risk of the vertebral body kyphotic deformity progression in patients with type A1 injuries of the thoracolumbar junction

17:38 - 17:42

Abstract Presenter: Oleksii Nekhlopochyn (Kyiv, Ukraine)

Results of Early Versus Delayed Decompression for Traumatic Cervical Spinal Cord Injury: A Single Center Prospective Study

17:42 - 17:46

Abstract Presenter: Biswaranjan Nayak (Bhubaneswar, khordha, India)

Q+A 17:46 - 17:51

Limitations of the ASIA Impairment Scale for Prognostication of Spinal Cord Injuries in Acute Care 17:51 - 17:55

Abstract Presenter: Eric Robinson (Barbados)

The 5-Factor Modified Frailty Index (mFI-5) Predicts Return to Operating Room for Patients with Traumatic Spinal Injury Undergoing Posterior Fusion 17:55 - 17:59

Abstract Presenter: Julian Gendreau (United States)

POSTERIOR C1-2 PEDICLE SCREWS FIXATION FOR THE TREATMENT OF UNSTABLE COMPLEX C2 FRACTURES: OUR EXPERIENCE 17:59 - 18:03

Abstract Presenter: Biswaranjan Nayak (Bhubaneswar, khordha, India)

Managing traumatic spine in LMIC - challenges and development 18:03 - 18:07

Abstract Presenter: Hamisi Shabani (Dar es Salaam, Tanzania)

Use of Intraparenchymal Pressure Monitors Versus External Ventricular Drains in Intracranial Hemorrhage: A Propensity-Score Matched Analysis 18:07 - 18:16

Abstract Presenter: Ankit Mehta (Chicago, United States)

Survival Following Craniectomy in Intracranial Gunshot Wounds: A Propensity-Score Matched Analysis 18:16 - 18:20

Q+A 18:20 - 18:26

Abstract Presentations

16:30 - 18:30

R2.4A

SKULL BASE I

Chair: Amir Samii (Germany)

Chair: Maurizio Zorio (South Africa)

Chair: Petr Vacek (Plzen, Czech Republic)

Artificial Intelligence Assisted Operative Anatomy Recognition During Endoscopic Pituitary Surgery - A Pre-Clinical Comparative Study 16:30 - 16:39

Abstract Presenter: Danyal Zaman Khan (United Kingdom)

Intraoperative Real-time Near-infrared Image-guided Endoscopic Endonasal Surgery for Pituitary Tumors 16:39 - 16:43

Abstract Presenter: Jun Muto (Aichi, Japan)

Extended Endoscopic Transtuberculum Transplanum Approach for Pituitary Adenoma: an Algorithmic Approach to Decision Making 16:43 - 16:47

Abstract Presenter: Guive Sharifi (Iran)

Endoscopic versus Microscopic Trans-sphenoidal Surgery in the Treatment of Pituitary Adenomas: Evaluation of of Hormonal Status and Related Peri-operative Complication 16:47 - 16:51

Abstract Presenter: Ivica Kocovski (Skopje, North Macedonia)

Endoscopic Endonasal versus Microsurgical Transsphenoidal Approach for Pituitary Adenomas 16:51 - 16:55

Abstract Presenter: Ovanes Akobyan (Saint-Petersburg, Russian Federation)

Predictors of Central Diabetes Insipidus After Endoscopic Transsphenoidal Surgery of Pituitary Adenoma at a Tertiary Hospital in the Philippines 16:55 - 16:59

Abstract Presenter: Jonna Maala (Metro Manila, Philippines)

Incidence of Postoperative Cerebrospinal Fluid Leaks in Endoscopic Endonasal Transsphenoidal Surgery for Pituitary Adenomas without Sellar Floor Reconstruction	16:59 - 17:03
<i>Abstract Presenter:</i> Khawar Anwar (Lahore, Pakistan)	
Q+A	17:03 - 17:08
Pituitary adenomas in elderly patients: analysis of series in a South African tertiary hospital	17:08 - 17:12
<i>Abstract Presenter:</i> Kuzolunga Xulu (Durban, South Africa)	
An illustrative evolution of a single surgeon's experience in sella floor re-construction after endoscopic endonasal transsphenoidal pituitary adenoma resection	17:12 - 17:16
<i>Abstract Presenter:</i> Patrick Lekgwara (Pretoria, South Africa)	
The Endoscopic-Assisted Supraorbital Approach for Resection of Tuberculum Sellae Meningiomas	17:16 - 17:20
<i>Abstract Presenter:</i> Ali Ayyad (doha, Qatar)	
Tuberculum Sella meningiomas: Choosing the approach? A critical evaluation of factors influencing outcomes.	17:20 - 17:24
<i>Abstract Presenter:</i> Dwarakanath Srinivas (India)	
Q+A	17:24 - 17:29
Features of surgical treatment of patients with invasively growing malignant tumors of sinonasal localization: experience of treatment of 300 patients	17:29 - 17:33
<i>Abstract Presenter:</i> Dmitrii Spirin (Moscow, Russian Federation)	
Lateral recess of sphenoid sinus: A Hidden Site for Cerebrospinal Fluid leak- An Institutional Experience	17:33 - 17:37
<i>Abstract Presenter:</i> Darshan H R (India)	
Modern technologies in surgical treatment of hyperostotic spheeno-orbital meningiomas, 10 years of experience	17:37 - 17:41
<i>Abstract Presenter:</i> Nikolay Lasunin (Russian Federation)	
RECONSTRUCTION OF SURGICAL DEFECTS IN SPHENO-ORBITAL MENINGIOMA SURGERY	17:41 - 17:45
<i>Abstract Presenter:</i> Nikolay Lasunin (Russian Federation)	
Simultaneous combined endonasal and transcranial surgery for large skull base tumors invading multiple regions	17:45 - 17:49
<i>Abstract Presenter:</i> Kiyohiko Sakata (Kurume, Japan)	
Giant Olfactory Groove Meningiomas: a case series demonstrating the surgical management and functional outcomes	17:49 - 17:53
<i>Abstract Presenter:</i> Mohamed Badran (Mansoura, Egypt)	
Q+A	17:53 - 17:58
Modifications of the orbitozygomatic approaches. Topographic and morphometric study	17:58 - 18:02
<i>Abstract Presenter:</i> Semyon Melchenko (Moscow, Russian Federation)	
Case Series and Approach to Orbital Pathology: Microscope vs Endoscope	18:02 - 18:06
<i>Abstract Presenter:</i> Christos Profyris (Johannesburg, South Africa)	
Management of pituitary adenomas: experience in the neurosurgery	18:06 - 18:10
<i>Abstract Presenter:</i> Maguette Mbaye (Dakar, Senegal)	
Q+A	18:10 - 18:14

Abstract Presentations

16:30 - 18:30

R2.4B

PAEDIATRIC NEUROSURGERY I

Chair: Peter Ssenyonga (Uganda)

Chair: Guirish Solanki (United Kingdom)

Initial experience with focused ultrasound in pediatric patients with DIPG at Children's National Hospital: rationale and technical considerations. 16:30 - 16:39

Abstract Presenter: Gregory Keating (Washington, United States)

Analysis of high-frequency intracranial pressure data and mortality in 364 children with severe traumatic brain injury 16:39 - 16:48

Abstract Presenter: Cassi-Lee Rubin (South Africa)

Inflammation Disrupts Networks of Attention and Executive Function after Pediatric Traumatic Brain Injury: A Pilot Study 16:48 - 16:52

Abstract Presenter: Laura Blackwell (United States)

Clinical characterization and outcome of open versus closed traumatic brain injury in pediatric population 16:52 - 16:56

Abstract Presenter: Muhammad Mansur Idris (Nigeria)

Describing the characteristics of craniocerebral gunshot wounds and associations with intracranial pressure and brain tissue oxygenation in young children 16:56 - 17:00

Abstract Presenter: Jesse George Kwete Bulabula (Cape town, South Africa)

Q+A 17:00 - 17:05

Rate of Adverse Events in a Pediatric Neurosurgical Practice Over 4 Years 17:05 - 17:09

Abstract Presenter: Luis Rodriguez (St Petersburg, United States)

Pediatric craniovertebral junction instability: Operative outcomes & intricacies 17:09 - 17:13

Abstract Presenter: Karthigeyan Madhivanan (Chandigarh, India)

Determining the clinical relevance of traumatic retroclival hematoma in children 17:13 - 17:17

Abstract Presenter: Moses Asante-Bremang (Cape Town, South Africa)

Q+A 17:17 - 17:22

Evolution of Syringomyelia after Spinal Cord Detethering in Pediatric Patients with Spinal Cord Lipomas 17:22 - 17:26

Abstract Presenter: Chiara Spezzani (Italy)

Spinal Dysraphism: Clinical Presentation, Management and Outcome 17:26 - 17:30

Abstract Presenter: Yahya Khormi (Jazan, Saudi Arabia)

Prevalence of neural tube defects among pregnant women in Addis Ababa: a community-based study using prenatal ultrasound examination 17:30 - 17:34

Abstract Presenter: Abenezer Tirsit Aklilu (Ethiopia)

A Pooled Analysis of Management and Outcomes in Pediatric Infectious Intracranial Aneurysms 17:34 - 17:38

Abstract Presenter: Ali Alawieh (United States)

Risk factors for intracranial aneurysm rupture in pediatric patients 17:38 - 17:42

Abstract Presenter: Ruiqi Chen (Chengdu, China)

Q+A 17:42 - 17:48

Exo-endoscopic surgical treatment of craniosynostosis in children	17:48 - 17:52
<i>Abstract Presenter:</i> Iurii Iakimov (Moscow, Russian Federation)	
Our first experiences with endoscopic-assisted suturotomy with subsequent therapy with cranial remodeling orthosis as a treatment of craniosynostosis	17:52 - 17:56
<i>Abstract Presenter:</i> Petr Vacek (Plzen, Czech Republic)	
Long term anthropometric and cosmetic outcomes following flexible endoscope assisted suture release for isolated sagittal synostosis	17:56 - 18:00
<i>Abstract Presenter:</i> Wickus Neethling (Johannesburg, South Africa)	
Endoscopic suturotomy via a flexible bronchoscope: a recent, brief history of success in a public pediatric hospital in Mexico	18:00 - 18:04
<i>Abstract Presenter:</i> Isaias Pérez Negrete (Morelia, Mexico)	
Experience in mono and multisutural craniosynostosis with minimal invasive technique	18:04 - 18:08
<i>Abstract Presenter:</i> Germán Ballesteros Cuevas (Puebla, Mexico)	
The use of Non-Invasive Halo System (NIHS) in Atlantoaxial rotatory subluxation / fixation in childhood (AARF)	18:08 - 18:12
<i>Abstract Presenter:</i> Chandrasekaran Kaliaperumal (Edinburgh, United Kingdom)	
Q+A	18:12 - 18:18
<i>Abstract Presentations</i> 16:30 - 18:30	R1.4A
FUNCTIONAL - SPASTICITY	
<i>Chair:</i> Alexandre Campos (Portugal)	
<i>Chair:</i> Kim Burchiel (Portland, United States)	
<i>Chair:</i> Kilsoo Kim (Japan)	
Optimal targets, connectivity, and tissue integrity for deep brain stimulation in patients with disorders of consciousness	16:30 - 16:39
<i>Abstract Presenter:</i> Marina Raguz (Zagreb, Croatia)	
Deep Brain Stimulation in Disorders of Consciousness: 10 years of a single center experience	16:39 - 16:48
<i>Abstract Presenter:</i> Darko Chudy (Zagreb, Croatia)	
Q+A	16:48 - 16:53
Randomized, controlled phase 2a Clinical Trial: Role of stem cell therapy in ischemic stroke: Safety and feasibility. CELICTUS STUDY	16:53 - 16:57
<i>Abstract Presenter:</i> Borja Ferrández-Pujante (Madrid, Spain)	
Robust quantification of neuroplastic effects following cortical stimulation	16:57 - 17:01
<i>Abstract Presenter:</i> Richard J. Burman (Oxford, United Kingdom)	
Sacral nerve stimulation in patients with sacral agenesis using 3D printing and intraoperative neuronavigation	17:01 - 17:05
<i>Abstract Presenter:</i> Sara Nunes de Sequeira (Lisboa, Portugal)	
MRI parameters as potential predictive factors in evaluation of patients with disorders of consciousness prior to DBS	17:05 - 17:09
<i>Abstract Presenter:</i> Marina Raguz (Zagreb, Croatia)	
Q+A	17:09 - 17:14
Deep brain stimulation in Pediatric dystonia: Our experience	17:14 - 17:18
<i>Abstract Presenter:</i> Dwarakanath Srinivas (India)	

Spinal cord stimulation as an alternative treatment option to repeated spine surgeries in failed back surgery syndrome	17:18 - 17:22
<i>Abstract Presenter:</i> David Kis (Szeged, Hungary)	
MICROVASCULAR DECOMPRESSION FOR INTRACTABLE TINNITUS	17:22 - 17:26
<i>Abstract Presenter:</i> Krish Sridhar (Chennai, India)	
Successful Management of Trigeminal Neuralgia (TN)-related Facial Pain syndromes with Stereotactic Radiation Surgery (SRS): A Case Series	17:26 - 17:30
<i>Abstract Presenter:</i> Ishwarya Nair (Brisbane, Australia)	
Q+A	17:30 - 17:35
A MRI and DTI study of Median nerve in Carpal tunnel syndrome with Clinico radiological correlation	17:35 - 17:39
<i>Abstract Presenter:</i> Pragyan Sarma (New Delhi, India)	
Successful Management of Refractory Craniofacial Pain with Peripheral Nerve Field Stimulation: A Multicenter Case Series	17:39 - 17:43
<i>Abstract Presenter:</i> Ishwarya Nair (Brisbane, Australia)	
Genetic polymorphisms in patients with trigeminal neuralgia: Genomic associations based on age, gender, and pain with and without neurovascular compression	17:43 - 17:47
<i>Abstract Presenter:</i> Kim Burchiel (Portland, United States)	
Dorsal Root Entry zone lesioning for Brachial Neuralgia	17:47 - 17:51
<i>Abstract Presenter:</i> Ramesh Doddamani (New Delhi, India)	
Q+A	17:51 - 17:56
<i>Abstract Presentations</i> 16:30 - 18:30	R1.4B
NEURO-ONCOLOGY	
<i>Chair:</i> Peter Whitfield (United Kingdom)	
<i>Chair:</i> Manfred Westphal (Germany)	
USEFULNESS OF 18-FET-PET IN THE DIFFERENTIAL DIAGNOSIS OF PROGRESSION VS. RADIATION INDUCED ANOMALIES IN HIGH GRADE GLIOMA	16:30 - 16:34
<i>Abstract Presenter:</i> Pier Paolo Berti (Bolzano, Italy)	
ctDNA Detection In Cerebrospinal Fluid And Concordance With The Primary Tumor in a multicenter prospective study of patients with glioma	16:34 - 16:38
<i>Abstract Presenter:</i> REBECA PÉREZ ALFAYATE (MADRID, Spain)	
Q+A	16:38 - 16:42
Low-grade glioma imaging volumes and survival: A single-institution analysis of 103 patients after resection using intraoperative MRI	16:42 - 16:46
<i>Abstract Presenter:</i> Randy Jensen (Salt Lake City, United States)	
Microsurgical resection of glioblastoma causes ischemic microenvironment around the resected area and proneural-to-mesenchymal transition on tumor cells	16:46 - 16:50
<i>Abstract Presenter:</i> Alberto Ballestín (Orsay - Paris, France)	
Frontal Aslant Tract Mapping During Glioma Surgery	16:50 - 16:54
<i>Abstract Presenter:</i> Andrés Cervio (Buenos Aires, Argentina)	
Q+A	16:54 - 16:58

Drug repurposing of tonabersat as a potent gap junction inhibitor sensitizes primary glioblastoma cells for temozolomide	16:58 - 17:02
<i>Abstract Presenter:</i> Matthias Schneider (Bonn, Germany)	
Modulation of the p53-SXC-Glutathione Axis as a Therapeutic Tool in Glioma	17:02 - 17:06
<i>Abstract Presenter:</i> Alex Miner (Roanoke, United States)	
Supramaximal frontal glioma resection through a minimal approach: a technical note.	17:06 - 17:10
<i>Abstract Presenter:</i> Martin Merenzon (Miami, United States)	
Epilepsy in surgically treated low-grade gliomas: a single-centre experience	17:10 - 17:14
<i>Abstract Presenter:</i> Amir Saam Youshani (Salford, United Kingdom)	
Q+A	17:14 - 17:18
Contemporary Molecular Landscape, Survival, and Prognostic Features of Over 4,000 Gliomas	17:18 - 17:22
<i>Abstract Presenter:</i> Wenya Linda Bi (United States)	
Fluorescein-mediated sonodynamic treatment effects on brain tumor microenvironment in an orthotopic malignant glioma mouse model	17:22 - 17:26
<i>Abstract Presenter:</i> Nicoletta Corradino (Milan, Italy)	
Randomized, controlled trial of anterior temporal lobectomy versus gross total resection in newly-diagnosed temporal glioblastoma - the ATLAS trial protocol	17:26 - 17:30
<i>Abstract Presenter:</i> Matthias Schneider (Bonn, Germany)	
Sodium Fluorescein Guided Resection of Malignant Brain Tumours	17:30 - 17:34
<i>Abstract Presenter:</i> RAJKUMAR POTHIRAJ RAJU (COIMBATORE, India)	
Q+A	17:34 - 17:38
Interventional fluorescence lifetime imaging (iFLIm) for guiding resection of malignant gliomas	17:38 - 17:42
<i>Abstract Presenter:</i> Griffith Harsh (Sacramento, United States)	
Q+A	17:42 - 17:46
Primary brainstem tumors: whom, when and how to operate	17:46 - 17:50
<i>Abstract Presenter:</i> Andrey Gavryushin (Moscow, Russian Federation)	
BRAINSTEM TUMOUR SURGERY: SINGLE CENTER EXPERIENCE	17:50 - 17:54
<i>Abstract Presenter:</i> Volodymyr Smolanka (Ukraine)	
APPROACHES TO VENTRAL BRAIN STEM LESIONS	17:54 - 17:58
<i>Abstract Presenter:</i> Krish Sridhar (Chennai, India)	
Tran-temporal trans-choroidal approach for thalamopeduncular lesions- "A pragmatic approach	17:58 - 18:02
<i>Abstract Presenter:</i> Kamlesh Bhaisora (India)	
Q+A	18:02 - 18:06

Abstract Presentations

16:30 - 18:30

R1.6A

GLOBAL NEUROSURGERY I

Chair: Olufemi Bankole (Nigeria)

Chair: James Johnston (United States)

Chair: Nabila Tighilt (Algiers, Algeria)

Mapping the Global Neurosurgery Workforce	16:30 - 16:39
<i>Abstract Presenter:</i> Saksham Gupta (United States)	
Women neurosurgeons worldwide: characterizing the global female neurosurgical workforce	16:39 - 16:48
<i>Abstract Presenter:</i> Silvia Vaca (Palo Alto, United States)	
Primary healthcare providers' perceptions of paediatric hydrocephalus in Blantyre, Malawi; A qualitative study	16:48 - 16:52
<i>Abstract Presenter:</i> Camilla Grøver Aukrust (Oslo, Norway)	
Establishing a Global Neurosurgical Unit in Northern Tanzania through local-global partnership between Kilimanjaro Christian Medical Center and Barrow Neurological Institute	16:52 - 16:56
<i>Abstract Presenter:</i> Happiness Rabieli (Moshi, Tanzania)	
Q+A	16:56 - 17:00
Building Capacity in LMICs: The Madison Microneurology Initiative's Commitment to Free, Accessible, and Sustainable Microsurgical Training	17:00 - 17:04
<i>Abstract Presenter:</i> Abdullah Keles (Madison, United States)	
Setting up an intraoperative neurophysiology service in Myanmar	17:04 - 17:08
<i>Abstract Presenter:</i> Kathleen Seidel (Switzerland)	
Towards a common language in neurosurgical outcome evaluation: the NEON (NEurosurgical Outcome Network) proposal	17:08 - 17:12
<i>Abstract Presenter:</i> Paolo Ferroli (Milan, Italy)	
Neurosurgery in Australia's Top End: The lifesaving and economic advantages of developing sustainable neurosurgical care in rural and remote regions	17:12 - 17:16
<i>Abstract Presenter:</i> Oleg Peselzon (Darwin, Australia)	
Q+A	17:16 - 17:20
Neuro oncology services and research capacity in Kenya	17:20 - 17:24
<i>Abstract Presenter:</i> Sylvia Shitsama (Kenya)	
Geospatial analysis of the availability, distribution, and accessibility of neurosurgical facilities, workforce, and infrastructure in Nigeria; and projection towards 2050	17:24 - 17:28
<i>Abstract Presenter:</i> Alvan Ukachukwu (Durham, United States)	
Practicing Micro Neurosurgery and Skull base in limited resources areas and the importance of classical surgical approaches and techniques	17:28 - 17:32
<i>Abstract Presenter:</i> jalal najjar (Aleppo, Syrian Arab Republic)	
THE IMPACT OF COLONIALISM ON SURGICAL TRAINING STRUCTURES IN AFRICA: SURVEYING CURRENT AND PAST TRAINEES	17:32 - 17:36
<i>Abstract Presenter:</i> Efosa Ohonba (Cape Town, South Africa)	
Q+A	17:36 - 17:40
Neurosurgical Education in Andean Latin America: Assessment of Neurosurgical Anatomy Teaching Disparities	17:40 - 17:44
<i>Abstract Presenter:</i> Cyrus Elahi (Phoenix, United States)	
Analysis of the Caribbean Neurosurgery Workforce: Scope of Practice, Challenges and Ways Forward	17:44 - 17:48
<i>Abstract Presenter:</i> Ellianne dos Santos Rubio (Willemstad, Curacao)	
Epidemiological burden of neurosurgical diseases in Nigeria: A	17:48 - 17:52

systematic review and pooled patient analysis	
<i>Abstract Presenter:</i> Alvan Ukachukwu (Durham, United States)	
Operative Autonomy in Andean Latin American Neurosurgical Training: An Underrated Driver of Academic Excellence	17:52 - 17:56
<i>Abstract Presenter:</i> Cyrus Elahi (Phoenix, United States)	
Self-reporting Neurosurgical Workforce and Gaps in Portuguese speaking African Countries: a survey by association of African Portuguese-speaking neurosurgeons (A.N.PALOP)	17:56 - 18:00
<i>Abstract Presenter:</i> Ellianne dos Santos Rubio (Willemstad, Curacao)	
Q+A	18:00 - 18:04
Leadership Training in African Neurosurgery: Challenges and Opportunities for the Future	18:04 - 18:08
<i>Abstract Presenter:</i> Sylvia Shitsama (Kenya)	
Establishment of a global registry for traumatic brain injury - GEO-TBI	18:08 - 18:12
<i>Abstract Presenter:</i> Peter Hutchinson (Cambridge, United Kingdom)	
An in-country humanitarian neurosurgical services as model for low-and-middle-income countries: The case of Cote d' Ivoire	18:12 - 18:16
<i>Abstract Presenter:</i> Aderehime Haidara (Cote D'Ivoire)	
The COVID-19-stroke connection revisited: an in-depth analysis from the frontlines in The Bronx, NY	18:16 - 18:20
<i>Abstract Presenter:</i> Sahar Sorek (United States)	
Q+A	18:20 - 18:24

Wednesday, 06. December 2023*Industry Symposium*

07:00 - 08:30

Ballroom West

Industry Symposium**Globus Medical | Empowering your practice: embracing enabling technology to sustain your craft***Breakfast Symposium*

07:30 - 08:30

Auditorium 2

Young Neurosurgeons Forum**Introduction**

07:30 - 07:31

Speaker: Ignatius Esene (Cameroon)**Young Neurosurgeons: Demographics, Resources, Education, Barriers to Professional Development and Service Delivery in Neurosurgery**

07:31 - 07:35

Speaker: Ernest Barthelmy (United States)*Speaker:* Ignatius Esene (Cameroon)**Needs and Challenges of Young Latin American / Caribbean Neurosurgeons**

07:35 - 07:40

Speaker: Elizabeth Ogando-Rivas (United States)**Needs and Challenges of Young Asian Neurosurgeons**

07:40 - 07:45

Speaker: Sachin Chemate (India)**Needs and Challenges of Young African Neurosurgeons**

07:45 - 07:50

Speaker: Luxwell Jokonya (Zimbabwe)**Young Women Neurosurgeons: Challenges and Needs**

07:50 - 07:55

Speaker: Megan Still (United States)**Impact of Upsurgeon neurosimulation after 45 Courses in LMICs**

07:55 - 08:00

Speaker: Fahd Derkaoui (Morocco)**The Global Neurosurgery Research Climate: Capacity, Output And Barriers**

08:00 - 08:05

Speaker: Ignatius Esene (Cameroon)**Panel Discussion & WFNS Agenda for Young Neurosurgeons**

08:05 - 08:20

Speaker: Franco Servadei (Italy)*Speaker:* Nelson Oyesiku (United States)*Speaker:* Najia El Abbadi (Morocco)*Speaker:* Robert Dempsey (Madison, United States)**Closing remarks**

08:20 - 08:25

Speaker: Ernest Barthelmy (United States)*Speaker:* Ignatius Esene (Cameroon)*Breakfast Symposium*

07:30 - 08:30

R2.6A

DIVERSITY AND INCLUSION INITIATIVES: Vascular II*Chair:* Mbaye Thioub (Senegal)*Chair:* Abdessamad El Ouahabi (Morocco)**The study on the FDS safety and effectiveness in intracranial Aneurysms (Surpass Evolve)**

07:30 - 07:40

Speaker: Nourou Dine Adeniran Bankole (Tours, France)**Visualization of nonlinear correlation between age and poor outcome in subarachnoid hemorrhage**

07:40 - 07:50

Speaker: Fusao Ikawa (Japan)

Development and implementation of microsurgical clipping techniques for cerebral ruptured aneurysms in LMIC 's countries: a luxury or a necessity? 07:50 - 08:00

Speaker: Abdessamad El Ouahabi (Morocco)

Surgery of ruptured intracranial aneurysms in LMIC countries, experience of Senegal 08:00 - 08:10

Speaker: Mbaye Thioub (Senegal)

Q&A 08:10 - 08:20

Breakfast Symposium

07:30 - 08:30

R2.6B

An interactive discussion session: "The ethics of defensive practice - perceptions across different geographies"

Chair: David Roytowski (South Africa)

A guided interactive discussion on defensive practice across the globe 07:30 - 08:30

Discussant: David Roytowski (South Africa)

Breakfast Symposium

07:30 - 08:30

R2.4A

DIVERSITY AND INCLUSION INITIATIVES: Innovation and neuroethics

Chair: Tiit Mathiesen (Denmark)

Neuroethics and technology 07:30 - 07:42

Speaker: Mario Ganau (Oxford, United Kingdom)

AI and language models 07:42 - 07:54

Speaker: James Rutka (Canada)

Neuroethics and technology Innovation - the role of an ethics committee 07:54 - 08:06

Regulation of neuroethics 08:06 - 08:18

Speaker: Graham Fieggen (South Africa)

Panel discussion 08:18 - 08:30

Breakfast Symposium

07:30 - 08:30

R2.4B

DIVERSITY AND INCLUSION INITIATIVES: Neuro-oncology

Chair: Kate Drummond (Australia)

Chair: Shawn Harvey-Jumper (United States)

Glioblastoma remodeling of neuronal circuits 07:30 - 07:45

Speaker: Shawn Harvey-Jumper (United States)

The Influence of glioma on neural encoding 07:45 - 08:00

Speaker: Lucy Palmer (Australia)

The secret language of glioma - electricity 08:00 - 08:15

Speaker: Heidi McAlpine (Australia)

Discussion 08:15 - 08:30

<i>Breakfast Symposium</i>	
07:30 - 08:30	R1.4A
DIVERSITY AND INCLUSION INITIATIVES: Diversity in Global Neurosurgery	
<i>Chair:</i> Ernest Barthelmy (United States)	
Racism as a Historical Determinant of Contemporary Neurosurgical Inequities	07:30 - 07:40
<i>Moderator:</i> Ernest Barthelmy (United States)	
Is Global Health Really Global?	07:40 - 07:50
<i>Speaker:</i> Beverly Cheserem (Kenya)	
Lusophone Perspectives on Diversity in Neurosurgery	07:50 - 08:00
<i>Speaker:</i> Ana Cristina Silva (Brazil)	
Perspective on Diversity in American Neurosurgery	08:00 - 08:10
<i>Speaker:</i> Gail Rosseau (United States)	
Discussion	08:10 - 08:30
<i>Breakfast Symposium</i>	
07:30 - 08:30	R1.4B
DIVERSITY AND INCLUSION INITIATIVES: Diversity in Paediatric Neurosurgery	
<i>Chair:</i> Nelci Zanon (Brazil)	
<i>Chair:</i> Nqobile Thango (South Africa)	
A South American perspective	07:30 - 07:45
<i>Speaker:</i> Nelci Zanon (Brazil)	
An African perspective	07:45 - 08:00
<i>Speaker:</i> Nqobile Thango (South Africa)	
A North American perspective	08:00 - 08:15
<i>Speaker:</i> Eylem Öcal (United States)	
Discussion	08:15 - 08:30
<i>Breakfast Symposium</i>	
07:30 - 08:30	R1.6A
DIVERSITY AND INCLUSION INITIATIVES: Education and Training	
<i>Chair:</i> Rohen Harrichandparsad (South Africa)	
<i>Chair:</i> Sarah Olson (brisbane, Australia)	
Symposium on Education and Training	07:30 - 08:30
<i>Speaker:</i> Aminath Kelani (Niger)	
<i>Speaker:</i> Salia Diarra (Mali)	
<i>Speaker:</i> Kachinga Sichizya (Zambia)	
<i>Discussant:</i> Jeff Ntalaja (Congo (Democratic Republic))	
<i>Discussant:</i> Peter Whitfield (United Kingdom)	
<i>Headline Topics</i>	
08:30 - 10:00	Ballroom East
INNOVATING AND WORKING WITH INDUSTRY: World Forum	
<i>Chair:</i> Graham Fieggen (South Africa)	
<i>Chair:</i> Marcos Masini (Brazil)	
<i>Chair:</i> Marco Molina (Honduras)	
Opening remarks	08:30 - 08:35
<i>Speaker:</i> Graham Fieggen (South Africa)	
<i>Speaker:</i> Marcos Masini (Brazil)	
<i>Speaker:</i> Marco Molina (Honduras)	
How To Manage Complicated Cases with Most Uncomplicated Way	08:35 - 08:45

in Small Neurosurgical Centres - Tips for better outcome		
<i>Speaker:</i> Surath Sanjaya Munasinghe (Sri Lanka)		
Role of DC (Decompressive Craniotomy) in centres with no ICP (Intra cranial Pressure) monitoring facilities and complications associated with the procedure and its' management	08:45 - 08:55	
<i>Speaker:</i> Deepak Gupta (India)		
Safe, Aesthetic and Economical Craniotomy: Unmissable Technical Details	08:55 - 09:05	
<i>Speaker:</i> Sebastião Nataniel Silva Gusmão (Brazil)		
<i>Speaker:</i> Marcos Masini (Brazil)		
Development of a Novel Low-Cost Exoscope to Expand Access to Microneurosurgical Care in Low- and Middle-Income Countries	09:05 - 09:15	
<i>Speaker:</i> Manuel de Jesus Encarnación Ramirez (Russian Federation)		
Affordable Neurosurgical Technologies and Techniques for Low-Income Regions	09:15 - 09:25	
<i>Speaker:</i> Bello Shehu (Nigeria)		
Artificial Intelligence in Neurosurgery	09:25 - 09:35	
<i>Speaker:</i> Vincent Ng (Singapore)		
Space Neurosurgery: a view from Europe	09:35 - 09:45	
<i>Speaker:</i> Edson Oliviera (Portugal)		
Affordable Neurosurgical Technologies and Techniques for Low-Income Regions	09:45 - 09:55	
<i>Speaker:</i> Akio Morita (Tokyo, Japan)		
Conclusion	09:55 - 10:00	
<i>Speaker:</i> Nelson Oyesiku (United States)		
<i>Speaker:</i> Najia El Abbadi (Morocco)		
<i>Headline Topics</i>		
08:30 - 10:00		Ballroom West
INNOVATING AND WORKING WITH INDUSTRY: Education Workshop		
<i>Chair:</i> Luis Borba (Brazil)		
Education and Training in Neurosurgery: Overview	08:30 - 08:42	
<i>Speaker:</i> Luis Borba (Brazil)		
Hybrid models using human and bovine placenta for microsurgical training in the laboratory	08:42 - 08:54	
<i>Speaker:</i> Arthur Adolfo Nicolato (Brazil)		
Upper cervical stabilization. Which approach works better	08:54 - 09:06	
<i>Speaker:</i> Fatos Olldashi (Tirana, Albania)		
New trends in craniocervical junction neurosurgery	09:06 - 09:18	
<i>Speaker:</i> Massimiliano Visocchi (Italy)		
Developing and assessing neurosurgical curricula. Experiences from Europe and the UK	09:18 - 09:30	
<i>Speaker:</i> Peter Whitfield (United Kingdom)		
<i>Headline Topics</i>		
08:30 - 10:00		Auditorium 2
INNOVATING AND WORKING WITH INDUSTRY: Skull Base		
<i>Chair:</i> Amir Dehdashti (United States)		
<i>Chair:</i> Chandreshkhar Deopujari (India)		
Alternative concept and techniques in brainstem cavernous	08:30 - 08:40	

malformation surgery	
<i>Speaker:</i> Amir Dehdashti (United States)	
The way ahead	08:40 - 08:50
<i>Speaker:</i> Chandreshkhar Deopujari (India)	
Expanded endonasal approaches and specialized instrumentation	08:50 - 09:00
<i>Speaker:</i> Stephen Magill (United States)	
MIPLATTA FULL: Use of Microscopy combined with Uniarm Endoscopy in complex tumors of posterior fossa a novel combined approach	09:00 - 09:10
<i>Speaker:</i> Jorge Mura (Chile)	
Craniocervical junction cases	09:10 - 09:20
<i>Speaker:</i> Stephen Viljoen (United States)	
Complete Closure of skull base in endoscopic endonasal surgery. Impact of a training model specific to dural suture.	09:20 - 09:30
<i>Speaker:</i> Yudo Ishii (Japan)	
CSF Fistula - Improving outcome	09:30 - 09:40
<i>Speaker:</i> Salman Sharif (Pakistan)	
20 Years of Collaboration with an Endoscopic Company	09:40 - 09:50
<i>Speaker:</i> Henry Schroeder (Germany)	
<i>Headline Topics</i>	
08:30 - 10:00	R2.6A
INNOVATING AND WORKING WITH INDUSTRY: Vascular	
<i>Chair:</i> Sandor Nardai (Hungary)	
<i>Chair:</i> Fady Charbel (United States)	
Curative Glubran 2 embolisation of Cerebral AVMs	08:30 - 08:40
<i>Speaker:</i> Nicolae Dobrin (Romania)	
New Technologies in Neurovascular Surgery	08:40 - 08:50
<i>Speaker:</i> Serge Marbacher (Switzerland)	
Interventions on the cerebral venous system: the new frontier of endovascular neurosurgery	08:50 - 09:00
<i>Speaker:</i> Sandor Nardai (Hungary)	
Place of service for comprehensive cerebrovascular and endovascular surgery - do we need hybrid ORs, biplane suites or not at all?	09:00 - 09:10
<i>Speaker:</i> Clemens Schirmer (United States)	
Surgical procedures for V1 segment of the vertebral artery	09:10 - 09:20
<i>Speaker:</i> Mehmet Erkan Üstün (Turkey)	
Multidisciplinary team approach in the management of neurovascular pathologies	09:20 - 09:30
<i>Speaker:</i> İhsan Solaroğlu (Turkey)	
Endovascular treatment of intracranial aneurysms using flow diversion	09:30 - 09:40
<i>Speaker:</i> Cristian Mihalea (France)	
New Technologies - Quantitative MRA and bypass indication	09:40 - 09:50
<i>Speaker:</i> Fady Charbel (United States)	
Blister aneurysm treatment - transition for surgery to Endovascular	09:50 - 10:00
<i>Speaker:</i> Allan Taylor (South Africa)	

Headline Topics

08:30 - 10:00

R2.6B

INNOVATING AND WORKING WITH INDUSTRY: Neurotrauma*Chair:* Jacob Lepard (Houston, United States)*Chair:* Michael Fehlings (Canada)*Chair:* Lukas Rasulic (Serbia)*Chair:* Kevin Wang (United States)**Innovative brain monitoring - lessons learned working with industry**

08:30 - 08:45

Speaker: Ursula Rohlwink (South Africa)**Cranial reconstruction how can we improve the materials**

08:45 - 09:00

Speaker: Franco Servadei (Italy)**Biomarkers - working with industry - new innovations**

09:00 - 09:15

Speaker: Alfonso Lagares (Spain)**Clinical application of biomarkers in TBI: are we really there?**

09:15 - 09:30

Speaker: Andres Buki (Hungary)**Working with industry: Barriers, opportunities and pitfalls**

09:30 - 09:45

Speaker: Antonio Belli (United Kingdom)**Working with industry to improve pain and spinal cord injury repair**

09:45 - 10:00

Speaker: Eve Tsai (Ottawa, Canada)*Headline Topics*

08:30 - 10:00

R2.4A

INNOVATING AND WORKING WITH INDUSTRY: Neuro-endoscopy*Chair:* Llewellyn Padayachy (South Africa)*Chair:* Stefan Wolfsberger (Austria)**Combined use of the exoscope and endoscope in neurosurgical procedures**

08:30 - 08:42

Speaker: Llewellyn Padayachy (South Africa)**Purely endoscopic transcranial surgery - can endoscopes replace surgical microscopes?**

08:42 - 08:54

Speaker: Waleed Azab (Kuwait)**Navigation and robotics: Tools for complication avoidance in neuroendoscopy?**

08:54 - 09:06

Speaker: Stefan Wolfsberger (Austria)**Radiomics**

09:06 - 09:18

Speaker: Domenico Solari (Italy)**Confocal neuroendoscopy**

09:18 - 09:30

Speaker: Alvaro Cordoba (Uruguay)**Optical coherence tomography for endonasal pituitary surgery**

09:30 - 09:42

Speaker: Alexander Micko (Austria)**Future directionS of neuroendoscopy in the spine surgical field: Review of current status in Indonesia**

09:42 - 09:54

Speaker: Rully Hanafi Dahlan (Indonesia)*Headline Topics*

08:30 - 10:00

R2.4B

INNOVATING AND WORKING WITH INDUSTRY: Neuro-oncology*Chair:* Michael Ivan (United States)*Chair:* Edjah Nduom (United States)

Novel clinical trial platforms (Window of opportunity and Phase 0) and how they work with industry	08:30 - 08:42
<i>Speaker:</i> Kate Drummond (Australia)	
Using Surgical Trials to Improve Immune Therapy for Glioma	08:42 - 08:54
<i>Speaker:</i> Edjah Nduom (United States)	
Next generation intra-operative Imaging	08:54 - 09:06
<i>Speaker:</i> Philippe Schucht (Switzerland)	
Raman histology and MR Spectroscopy - for the detection of intraoperative tumor margins	09:06 - 09:18
<i>Speaker:</i> Michael Ivan (United States)	
Artificial Intelligence Opportunities for the management of brain tumours	09:18 - 09:30
<i>Speaker:</i> Jonathan Shapey (United Kingdom)	
Technology in brain surgery - training and operating in 2050	09:30 - 09:42
<i>Speaker:</i> Michael Ivan (United States)	
Discussion	09:42 - 10:00
<i>Headline Topics</i> 08:30 - 09:40	R1.4A
INNOVATING AND WORKING WITH INDUSTRY: Spinal Navigation and Robotics	
<i>Chair:</i> Francesco Costa (Italy)	
<i>Chair:</i> Jeff Ntalaja (Congo (Democratic Republic))	
Working with Industry (Brain Lab)	08:30 - 08:45
Exelsius Robot	08:45 - 08:55
<i>Speaker:</i> Muhammad Abd El Barr (United States)	
7D vs Stealth, Open vs MIS	08:55 - 09:05
<i>Speaker:</i> Corrinna Zygourakis (United States)	
Artificial Intelligence	09:05 - 09:15
<i>Speaker:</i> Anand Veeravagu (United States)	
Augmented Reality in Spinal Surgery	09:15 - 09:25
<i>Speaker:</i> Tim Witham (United States)	
Discussion	09:25 - 09:40
<i>Headline Topics</i> 08:30 - 10:00	R1.4B
INNOVATING AND WORKING WITH INDUSTRY: Paediatrics	
<i>Chair:</i> Shlomi Constantini (Israel)	
<i>Chair:</i> Robert Keating (United States)	
Novel techniques to investigate brain connectivity in asleep brain tumor surgery: Implications for Pediatric Neurosurgery	08:30 - 08:48
<i>Speaker:</i> Francesco Sala (Italy)	
The changing spectrum of pediatric neurosurgery	08:48 - 09:06
<i>Speaker:</i> Shlomi Constantini (Israel)	
Focused ultrasound in paediatric neurosurgery - from concept to application	09:06 - 09:24
<i>Speaker:</i> Robert Keating (United States)	
Minimally invasive tubular access for brain tumour surgery	09:24 - 09:42

Speaker: George Jallo (St Petersburg, United States)

Discussion: how do we engage with industry to innovate and move forward? 09:42 - 10:00

Headline Topics

08:30 - 10:00

R1.6A

INNOVATING AND WORKING WITH INDUSTRY: Global Neurosurgery

Chair: Saksham Gupta (United States)

Chair: Radzi Hamzah (United States)

Sustainable Financing through Public-Private Partnerships 08:30 - 08:40

Speaker: Kee Park (United States)

Global Neurosurgery and Industry 08:40 - 08:50

Speaker: Jogi Pattisapu (United States)

Win-Win-Win Opportunities for Global Neurosurgery 08:50 - 09:00

Speaker: Saksham Gupta (United States)

Round Table Discussion 09:00 - 10:00

ePosters

09:30 - 16:30

ePoster Area

Headline Topics

09:40 - 10:00

R1.4A

INNOVATING AND WORKING WITH INDUSTRY: Are Robots Good for Spine Surgery Training? - Debate

Chair: José Valerio (United States)

FOR 09:40 - 09:45

Speaker: Mirza Pojskic (Marburg, Germany)

AGAINST 09:45 - 09:50

Speaker: Jesus Lafuente (Spain)

Discussion 09:50 - 10:00

Speaker: Rafid Al-Mahfoudh (United Kingdom)

Speaker: Nikolay Peev (United Kingdom)

Speaker: Zan Chen (China)

Refreshment Break

10:00 - 10:30

Refreshment Break

Plenary Session

10:30 - 13:00

Auditorium 1

THE BOLD AND THE BEAUTIFUL: Disruptors and cutting edge innovations in Neurosurgery

Chair: David LeFeuvre (South Africa)

Chair: Alexandra Golby (Boston, United States)

Bifurcation aneurysms: how experience, new understandings and new technological developments may improve Endovascular strategies 10:30 - 10:45

Speaker: Laurent Spelle (France)

Spine: Robotics Technology: Inventing and Bringing a Change with the Globus Excelsius 10:45 - 11:00

Speaker: Nick Theodore (United States)

<p style="text-align: center;">Spine: Cutting Edge Technology</p> <p><i>Speaker:</i> Francesco Costa (Italy)</p>	11:00 - 11:15
<p style="text-align: center;">How Blood-based Biomarker Tests can Reshape the way we Manage and Treat the Injured Brain</p> <p><i>Speaker:</i> Kevin Wang (United States)</p>	11:15 - 11:30
<p style="text-align: center;">Investigating neuropathic pain using artificial intelligence</p> <p><i>Speaker:</i> Mojgan Hodaie (Canada)</p>	11:30 - 11:45
<p style="text-align: center;">Antenatal surgery for myelomeningocele</p> <p><i>Speaker:</i> Michael Belfort (United States) <i>Speaker:</i> William Whitehead (United States)</p>	11:45 - 12:05
<p style="text-align: center;">Microsurgical management of stroke</p> <p><i>Speaker:</i> Jorge Mura (Chile)</p>	12:05 - 12:20
<p style="text-align: center;">An Update on the WFNS Journal</p> <p><i>Speaker:</i> Anil Nanda (United States)</p>	12:20 - 12:30
<p style="text-align: center;">'Sometimes, I've believed as many as six impossible things before breakfast.' What have been the greatest leaps forward in neurosurgery and where to next? (Panel discussion)</p> <p><i>Panelist:</i> Jacques Morcos (United States) <i>Panelist:</i> Stefan Florian (Romania) <i>Panelist:</i> İhsan Solaroğlu (Turkey) <i>Panelist:</i> David Adelson (United States)</p>	12:30 - 13:00
<p><i>Refreshment Break</i> 13:00 - 14:00</p> <p>Refreshment Break</p>	
<p><i>Speciality Breakaways</i> 14:00 - 16:30</p> <p style="text-align: center;">International Rhoton Symposium</p> <p><i>Chair:</i> Jacques Morcos (United States) <i>Chair:</i> Hung Tzu Wen (Brazil)</p>	Auditorium 1
<p style="text-align: center;">Welcome and introduction</p> <p><i>Speaker:</i> Jacques Morcos (United States) <i>Speaker:</i> Hung Tzu Wen (Brazil)</p>	14:00 - 14:10
<p style="text-align: center;">Anatomic-angiographic-surgical correlation of middle cerebral artery aneurysms</p> <p><i>Speaker:</i> Hung Tzu Wen (Brazil)</p>	14:10 - 14:25
<p style="text-align: center;">The anatomy you need to treat paraclinoid aneurysms</p> <p><i>Speaker:</i> Vincent Quilis Quesada (Spain)</p>	14:25 - 14:40
<p style="text-align: center;">Posterior fossa surgery: From Rhoton's "rule of three" to his comprehensive mastery of the entire compartment</p> <p><i>Speaker:</i> Ken Matsushima (Japan)</p>	14:40 - 14:55
<p style="text-align: center;">Anatomy of the brainstem applied to brainstem cavernoma surgery</p> <p><i>Speaker:</i> Jacques Morcos (United States)</p>	14:55 - 15:10
<p style="text-align: center;">Bony landmarks for brain surgery</p> <p><i>Speaker:</i> Carolina Martins (Brazil)</p>	15:10 - 15:25
<p style="text-align: center;">Middle fossa and cavernous sinus anatomy applied to microneurosurgery</p> <p><i>Speaker:</i> Vincent Quilis Quesada (Spain)</p>	15:25 - 15:40
<p style="text-align: center;">Relevance of understanding the dura in skull base surgery</p>	15:40 - 15:55

Speaker: Atul Goel (Mumbai, India)

Surgical anatomy of endoscopic keyhole skull base approaches

15:55 - 16:10

Speaker: Takeo Goto (Japan)

Future Directions in Neurosurgical Education: From the Lab to the Computer to the OR

16:10 - 16:25

Speaker: Jeffrey Sorenson (United States)

Speciality Breakaways

14:00 - 16:00

Ballroom East

How technology and innovation can accelerate neurosurgical training and service delivery (with the WFNS Young Neurosurgeons)

Chair: James Johnston (United States)

Chair: Alexandra Golby (Boston, United States)

Introduction

14:00 - 14:12

Speaker: James Johnston (United States)

Speaker: Alexandra Golby (Boston, United States)

IRCAD Africa

14:12 - 14:24

Speaker: Claire Karekezi (Kigali, Rwanda)

Low-field MRI in Uganda

14:24 - 14:36

Speaker: Steven Schiff (United States)

NousNav: a low cost and high value neuronavigation system

14:36 - 14:48

Speaker: Alexandra Golby (Boston, United States)

Development of a modular toolkit wiki for effective, ethical and equitable global neurosurgery education and collaboration

14:48 - 15:00

Speaker: James Johnston (United States)

Cost-effective simulation for global neurosurgery

15:00 - 15:12

Speaker: Nelci Zanon (Brazil)

Lessons from the broader medical community: technology for global neurosurgery

15:12 - 15:24

Speaker: Silvia Vaca (Palo Alto, United States)

Tips, tricks and trials of establishing a virtual neurosurgical consultation

15:24 - 15:36

Speaker: Ariana Barkely (United States)

Discussion

15:36 - 16:00

Speciality Breakaways

14:00 - 16:00

Ballroom West

Anatomy

Chair: Juan Gomez Amador (Mexico)

Chair: Graham Fieggen (South Africa)

Surgical Anatomy of the Clivus

14:00 - 14:09

Speaker: Miguel Mural (Argentina)

The Anatomy as an Ergonomic Tool

14:09 - 14:18

Speaker: Byron Salazar (Ecuador)

Anatomy and Technology for the Treatment of Intrinsic Lesions

14:18 - 14:27

Speaker: José Valerio (United States)

Importance of the Anatomy in Minimal Invasive Spine Surgery

14:27 - 14:36

Speaker: José Antonio Soriano (Mexico)

Merits of tailored retrosigmoid approach and hybrid use of endoscopy	14:36 - 14:45
<i>Speaker:</i> Imad Kanaan (Saudi Arabia)	
Anatomy and Molecular Approach for Gliomas	14:45 - 14:54
<i>Speaker:</i> Ying Mao (China)	
The Anatomy of Trigeminal Schwannoma Surgery	14:54 - 15:03
<i>Speaker:</i> Atul Goel (Mumbai, India)	
Approach to parafalcine meningioma	15:03 - 15:12
<i>Speaker:</i> Kazadi Kalangu (Zimbabwe)	
The role of surgery in the management of patients with symptomatic pineal cysts	15:12 - 15:21
<i>Speaker:</i> Thomas Santarius (United Kingdom)	
IVth ventricle adult ependymomas	15:21 - 15:30
<i>Speaker:</i> Vladimir Benes (Czech Republic)	
<i>Speciality Breakaways</i> 14:00 - 14:50	Auditorium 2
Skull Base: Chordomas & Chondrosarcoma Management	
<i>Chair:</i> Daniel Prevedello (United States)	
Chordoma & chondrosarcoma case presentations	14:00 - 14:08
<i>Speaker:</i> Rafael Martinez (United States)	
Chordoma & chondrosarcoma case presentations	14:08 - 14:16
<i>Speaker:</i> Damien Bresson (France)	
Chordoma & chondrosarcoma case presentations	14:16 - 14:24
<i>Speaker:</i> Sudhir Dubey (India)	
Chordoma & chondrosarcoma case presentations	14:24 - 14:32
<i>Speaker:</i> John Ouma (South Africa)	
Chordoma & chondrosarcoma case presentations	14:32 - 14:40
<i>Speaker:</i> James K. Liu (United States)	
Round table discussion	14:40 - 14:50
<i>Speaker:</i> Daniel Prevedello (United States)	
<i>Speciality Breakaways</i> 14:00 - 16:00	R2.6A
Vascular III - Cavernomas & other vascular lesions	
<i>Chair:</i> Basant Misra (India)	
<i>Chair:</i> Kenan Arnautovic (United States)	
Brainstem cavernomas: Surgical strategies and results	14:00 - 14:12
<i>Speaker:</i> Jacques Morcos (United States)	
Cavernoma management update - the CARE trial and implications for the future	14:12 - 14:24
<i>Speaker:</i> Patrick Grover (United Kingdom)	
Endoscopic assisted microsurgical resection of brain stem cavernoma, and surgery for hypothalamic & chiasm cavernoma	14:24 - 14:36
<i>Speaker:</i> Ali Ayyad (doha, Qatar)	
Microsurgery of eloquent cavernoma	14:36 - 14:48
<i>Speaker:</i> Basant Misra (India)	

Hemangioblastomas of CNS: Metaanalysis of metaanalysis and personal series	14:48 - 15:00
<i>Speaker:</i> Kenan Arnautovic (United States)	
Multimodality treatment of adult and paediatric AVM	15:00 - 15:12
<i>Speaker:</i> Amal Abou-Hamden (Australia)	
AVMS with aneurysms: management dilemmas	15:12 - 15:24
<i>Speaker:</i> Manas Panigrahi (Hyderabad, India)	
Is there a role for establishing benchmarks in vascular neurosurgery? An open invite for discussion	15:24 - 15:36
<i>Speaker:</i> Ekkehard Kasper (Canada)	
<i>Speciality Breakaways</i> 14:00 - 14:50	R2.6B
Neurotrauma I	
<i>Chair:</i> Franco Servadei (Italy)	
<i>Chair:</i> Ava Puccio (United States)	
<i>Chair:</i> Alfonso Lagares (Spain)	
<i>Chair:</i> Mohamed El Beltagy (Egypt)	
Cisternostomy vs trial decompressive craniectomy. How to understand why to not compare the technique for the same patients. Personal observation	14:00 - 14:08
<i>Speaker:</i> Corrado Iaccarino (Italy)	
Tips and tricks of cisternostomy the Peruvian experience	14:08 - 14:16
<i>Speaker:</i> Shugar Jhamil Hinojosa Motta (Peru)	
Translational work using advanced therapies	14:16 - 14:24
<i>Speaker:</i> Aminul Ahmed (United Kingdom)	
The potential of TBI biomarkers to increase efficacy and decrease cost burden globally	14:24 - 14:32
<i>Speaker:</i> Ramesh Grandhi (United States)	
Translational research in traumatic brain injury: can we fix the pathways?	14:32 - 14:40
<i>Speaker:</i> Andres Buki (Hungary)	
<i>Speciality Breakaways</i> 14:00 - 16:00	R2.4A
Neuro-endoscopy	
<i>Chair:</i> Mohamed El Beltagy (Egypt)	
<i>Chair:</i> Souhil Tliba (Algeria)	
Endoscopic Surgery of Colloid Cysts	14:00 - 14:00
Endoscopy versus microsurgery for colloid cysts of the third ventricle	14:00 - 14:12
<i>Speaker:</i> Waleed Azab (Kuwait)	
Endoscopic rotational technique for excision of colloid cysts of the third ventricle: the transforaminal and the trans-septal interforaminal approaches	14:12 - 14:24
<i>Speaker:</i> Waleed Azab (Kuwait)	
Endoscopic transtubular removal of colloid cysts	14:24 - 14:36
<i>Speaker:</i> Roman Bosnjak (Slovenia)	
Endoscopic Surgery of Tumors	14:36 - 14:36
Intraventricular tumors	14:36 - 14:48

Speaker: Henry Schroeder (Germany)

Endoscopy-assisted resection of intraventricular tumors

14:48 - 15:00

Speaker: Kazuhito Takeushi (Japan)

Endoscopic management of intraventricular tumors in children

15:00 - 15:12

Speaker: Mohamed El Beltagy (Egypt)

Endoscopic surgery of lesions of the posterior wall of the third ventricle

15:12 - 15:24

Speaker: Souhil Tliba (Algeria)

Purely endoscopic transtubular transventricular transchoroidal approach to the posterior 3rd ventricle and suprapineal lesions

15:24 - 15:36

Speaker: Roman Bosnjak (Slovenia)

Fully endoscopic excision of intra-axial tumors

15:36 - 15:48

Speaker: Waleed Azab (Kuwait)

The role of neuroendoscopy in the management of parenchymal tumors

15:48 - 16:00

Speaker: Kazuhito Takeushi (Japan)

Speciality Breakaways

14:00 - 16:00

R2.4B

Neuro-oncology - AANS/CNS Joint Session on Tumors and WFNS session on Global Neuro-Oncology

Chair: Kate Drummond (Australia)

Establishing neuro-oncology service in Uganda

14:00 - 14:15

Speaker: Peter Ssenyonga (Uganda)

A brief history of global neurosurgical partnerships in London with a view to the future

14:15 - 14:30

Speaker: Ciaran Hill (United Kingdom)

Building your Multidisciplinary Brain Tumour Service

14:30 - 14:45

Speaker: Kate Drummond (Australia)

Discussion

14:45 - 15:00

Speciality Breakaways

14:00 - 16:00

R1.4A

Spine Trauma Guidelines

Chair: Nick Theodore (United States)

Chair: Pragnesh Bhatt (Aberdeen, United Kingdom)

Chair: Nikolay Peev (United Kingdom)

Keynote: Role and timing of acute spinal cord injury surgery

14:00 - 14:15

Speaker: Michael Fehlings (Canada)

Spine committee recommendations

14:15 - 14:15

Pre-assessment

14:15 - 14:22

Case: Spinal cord injury

14:22 - 14:27

Speaker: Jeff Ntalaja (Congo (Democratic Republic))

Early management of spinal cord injury

14:27 - 14:37

Speaker: Francesco Costa (Italy)

Pharmacologic and Regenerative Cell Therapy for Spinal Cord Injury

14:37 - 14:47

Speaker: Toshihiro Takami (Japan)

Pediatric Cervical Spine Injuries and SCIWORA	14:47 - 14:57
<i>Speaker:</i> Nikolay Konovalov (Moscow, Russian Federation)	
Outcomes of Spinal Cord Injury	14:57 - 15:07
<i>Speaker:</i> Mehmet Zileli (Turkey)	
Subaxial Cervical Trauma	15:07 - 15:17
<i>Speaker:</i> Salman Sharif (Pakistan)	
Upper Cervical Spine Trauma	15:17 - 15:27
<i>Speaker:</i> Mirza Pojskic (Marburg, Germany)	
Discussion	15:27 - 15:42
Post-assessment	15:42 - 15:47
 <i>Speciality Breakaways</i> 14:00 - 16:00	R1.4B
Paediatrics	
<i>Chair:</i> Jay Riva Cambrin (Canada)	
Medico-legal Issues in Pediatric Neurosurgery	14:00 - 14:15
<i>Speaker:</i> Wan Tew Sew (Singapore)	
Current treatment paradigms for pediatric craniopharyngioma	14:15 - 14:30
<i>Speaker:</i> Shlomi Constantini (Israel)	
Management considerations for high grade AVMs	14:30 - 14:45
<i>Speaker:</i> Richard Edwards (United Kingdom)	
Paediatric Neurosurgical Oncology within Resource Limited setting	14:45 - 15:00
<i>Speaker:</i> Emmanuel Wegoye (Uganda)	
Worlds Apart- Disparities in Pediatric Neurosurgical Care in Canada	15:00 - 15:15
<i>Speaker:</i> Patrick McDonald (Canada)	
Fetal myelomeningocele closure	15:15 - 15:30
<i>Speaker:</i> Igor Vilela Faquini (Brazil)	
Neonatal Paenibacilliosis: Surgical Outcomes from a New Disease Causing African Infant Hydrocephalus	15:30 - 15:45
<i>Speaker:</i> Steven Schiff (United States)	
 <i>Speciality Breakaways</i> 14:00 - 16:00	R1.6A
Epilepsy seminar	
<i>Chair:</i> Sarah Olson (brisbane, Australia)	
<i>Chair:</i> Nico Enslin (South Africa)	
Setting up epilepsy surgery program at a LMIC centre	14:00 - 14:15
<i>Speaker:</i> Nico Enslin (South Africa)	
Starting up a functional neurosurgical practice	14:15 - 14:30
<i>Speaker:</i> Sarah Olson (brisbane, Australia)	
Neuromodulation for refractory focal aware seizures	14:30 - 14:45
<i>Speaker:</i> Osvaldo Vilela-Filho (Brazil)	
Panel discussion - Controversies and ethics in epilepsy surgery	14:45 - 15:15

<i>Speciality Breakaways</i> 14:50 - 16:00	R2.6B
Neurotrauma II	
<i>Chair:</i> Wilco Peul (Netherlands)	
<i>Chair:</i> Virendra Deo Sinha (India)	
<i>Chair:</i> Antonio Belli (United Kingdom)	
<i>Chair:</i> Marcel Ndayishyigikiye (Namibia)	
Rescuing the injured brain: A global perspective	14:50 - 14:58
<i>Speaker:</i> Peter Hutchinson (Cambridge, United Kingdom)	
Role and timing of surgery for acute spinal cord injury: an updated systematic review and guideline	14:58 - 15:06
<i>Speaker:</i> Michael Fehlings (Canada)	
Managing spine trauma in LMIC - lesson learned from Tanzania	15:06 - 15:14
<i>Speaker:</i> Hamisi Shabani (Dar es Salaam, Tanzania)	
Updates in epidural stimulation for spinal cord injury and what's next?	15:14 - 15:22
<i>Speaker:</i> Yi Lu (United States)	
The evolution of spinal injury care in Zimbabwe	15:22 - 15:30
<i>Speaker:</i> Aaron Musara (Zimbabwe)	
Robotics with Stereotactic Navigation and intraoperative CT for Spinal Trauma: Pearls and Tricks	15:30 - 15:38
<i>Speaker:</i> David Chan (Hong Kong)	
Update in the treatment of unstable odontoid fractures; what can we learn by hip surgeons	15:38 - 15:46
<i>Speaker:</i> Alberto Delitala (Italy)	
CSF Diversion in adult SCI: Institution of a lumbar drain targeted therapy	15:46 - 15:54
<i>Speaker:</i> Ava Puccio (United States)	
Neurosurgeon as advocates for brain and spine injury prevention; A global perspective	15:54 - 16:02
<i>Speaker:</i> Sarah Woodrow (Canada)	
 <i>Speciality Breakaways</i> 15:00 - 15:50	 Auditorium 2
Skull Base: Middle Fossa Approaches & Tumors	
<i>Chair:</i> Doo-Sik Kong (Korea, Republic of)	
Middle Fossa Approaches case presentations	15:00 - 15:08
<i>Speaker:</i> Ricardo Lopes (Brazil)	
Middle Fossa Approaches case presentations	15:08 - 15:16
<i>Speaker:</i> Jun Muto (Aichi, Japan)	
Middle Fossa Approaches case presentations	15:16 - 15:24
<i>Speaker:</i> Ulises Garcia Gonzales (Mexico)	
Middle Fossa Approaches case presentations	15:24 - 15:32
<i>Speaker:</i> Stefan Wolfsberger (Austria)	
Middle Fossa Approaches case presentations	15:32 - 15:40
<i>Speaker:</i> Manas Panigrahi (Hyderabad, India)	
Middle Fossa Approaches case presentations	15:40 - 15:48
<i>Speaker:</i> Alberto di Somma (Spain)	

Refreshment Break

16:00 - 16:30

Refreshment Break*Abstract Presentations*

16:30 - 18:30

Ballroom East

VASCULAR III*Chair:* Martin Sames (Czech Republic)*Chair:* Sandor Nardai (Hungary)*Chair:* Christos Profyris (Johannesburg, South Africa)**Management of complex intracranial aneurysms with bypass surgery: A series of 157 patients**

16:30 - 16:39

Abstract Presenter: Xiang'en Shi (China)**Reconstructive surgery of the extra- and intracranial brain arteries: Burdenko Center for Neurosurgery experience of 3500 vascular reconstructions**

16:39 - 16:48

Abstract Presenter: Anna Shulgina (Moscow, Russian Federation)**Posterior circulation arterial bypass and revascularization: Early experiences**

16:48 - 16:52

Abstract Presenter: Forhad Chowdhury (Dhaka, Bangladesh)**Microsurgical clipping techniques for ophthalmic segment aneurysms (OSA)**

16:52 - 16:56

Abstract Presenter: Rajneesh Kachhara (Indore, India)**Q+A**

16:56 - 17:01

Multi-Center Study: Outcomes of Microsurgical Treatment of Complex Cerebral Aneurysms (OMTA) performed under Conscious Sedation Compared to Standard General Anesthesia

17:01 - 17:05

Abstract Presenter: Jack Wellington (Bradford, United Kingdom)**Surgical treatment of distal cerebral aneurysms: a 20-year experience**

17:05 - 17:09

Abstract Presenter: Ilya Senko (Moscow, Russian Federation)**ANATOMICAL DEFINING ROUTES AND APPROACHES TO ANTERIOR COMMUNICATING ARTERY ANEURYSMS:ROLE OF DOME PROJECTION, NUMBER OF LOBES AND BLOOD FLUX: 315CASES**

17:09 - 17:13

Abstract Presenter: Daniel De Carvalho Kirchoff (São Bernardo do Campo, Brazil)**Giant and Very Large intracerebral aneurysms: Various options of cerebral bypasses and the patient outcomes- An Institutional experience**

17:13 - 17:17

Abstract Presenter: Darshan H R (India)**Middle communicating artery bypass as rescue option for complex MCA aneurysms: A report of two cases and discussion of concept**

17:17 - 17:21

Abstract Presenter: Dag Ferner Nettelund (Oslo, Norway)**Q+A**

17:21 - 17:29

Brainstem cavernous malformations: results in 34 patients and validation of Lawton-Garcia grading system as a predictor of surgery outcome

17:29 - 17:33

Abstract Presenter: Pavel Haninec (Czech Republic)**Brainstem cavernomas: Anatomical, clinical and surgical considerations from 27 cases**

17:33 - 17:37

Abstract Presenter: António Vilarinho (Portugal)

Approaching Deep-Seated Lesion and Bleedings With Tubular Retractor System: Case Series Of 28 Patients Treated In A Single Centre Institute	17:37 - 17:41
<i>Abstract Presenter:</i> Pier Paolo Berti (Bolzano, Italy)	
Closure intracranial pressure as a determinant of surgical decompression adequacy in spontaneous supratentorial intracerebral haematoma: a multicentreobservational study	17:41 - 17:45
<i>Abstract Presenter:</i> Sherry Jiani Liu (Singapore)	
Q+A	17:45 - 17:51
MMA embolization for Chronic Subdural Hematoma, Is it a real option?	17:51 - 18:01
<i>Abstract Presenter:</i> Omar Pichardo (CDMX, Mexico)	
Jugular Venous Compression Syndromes of the Skull Base and Subcranial Space: Current Appraisal of an Evolving Class of Clinical Entities	18:01 - 18:05
<i>Abstract Presenter:</i> Peter Nakaji (United States)	
Q+A	18:05 - 18:12
<i>Abstract Presentations</i> 16:30 - 18:30	Ballroom West
SPINE III	
<i>Chair:</i> Gian Marus (South Africa) <i>Chair:</i> Jake Timothy (United Kingdom)	
Surgical versus non-surgical treatment for sciatica: systematic review and meta-analysis of randomised controlled trials (BMJ 2023)	16:30 - 16:39
<i>Abstract Presenter:</i> Wilco (Willem) Peul (Leiden & The Hague, Netherlands)	
Clinical outcome in decompression alone versus decompression and instrumented fusion in patients with isthmic spondylolisthesis: a prospective cohort study	16:39 - 16:48
<i>Abstract Presenter:</i> Carmen Vleggeert-Lankamp (Leiden, Netherlands)	
Comparative analysis of three types of surgery for lumbar stenosis : Open laminectomy, uniportal and biportal endoscopy. (Prospective multi-center study)	16:48 - 16:52
<i>Abstract Presenter:</i> Jeong-Yoon Park (Seoul, Korea, Republic of)	
Assessment of factors affecting pain outcome following non-instrumented lumbar decompressive surgery for degenerative spine disease	16:52 - 16:56
<i>Abstract Presenter:</i> Moses Osaodion Inojie (Asaba, Nigeria)	
Decompression alone versus decompression and instrumented fusion for the treatment of isthmic spondylolisthesis: a randomized controlled trial	16:56 - 17:00
<i>Abstract Presenter:</i> Wilco (Willem) Peul (Leiden & The Hague, Netherlands)	
Outcomes of the SpineJack® vertebral augmentation system in the management of traumatic thoracolumbar fractures in a UK population	17:00 - 17:04
<i>Abstract Presenter:</i> Sheikh Muktedir Bin Momin (Birmingham, United Kingdom)	
Q+A	17:04 - 17:11
Indirect decompression in degenerative lumbar spine pathology: advantages and disadvantages Felix Dolorit 1, Penelope Mantilla 2, Maykel Dolorit 3	17:11 - 17:15
<i>Abstract Presenter:</i> Felix Dolorit (South Miami, United States)	

ROLE OF MRI AND 18-FDG PET CT IN IDENTIFYING PAIN GENERATORS IN PATIENTS WITH LOW BACK PAIN	17:15 - 17:19
<i>Abstract Presenter:</i> Deepak Sharma (HYDERABAD, India)	
SURGICAL OUTCOMES ENDOSCOPIC LUMBAR SPINE SURGERY WITH EASYGO! SYSTEM IN OBESITY PATIENTS.	17:19 - 17:23
<i>Abstract Presenter:</i> Magomed Lepshokov (Germany)	
Q+A	17:23 - 17:27
Comparison Of Pedicle Screw Placement Using Navigation Based C-Arm & Conventional C-Arm Guided Techniques In Thoracolumbar Spine: Prospective Observational Study	17:27 - 17:31
<i>Abstract Presenter:</i> Siddharth Sahu (Bengaluru, India)	
Identifying new entry point for free hand cervical pedicle screw insertions- A Cadaveric study	17:31 - 17:35
<i>Abstract Presenter:</i> Raju Manjooran (Pathanamthitta, India)	
Evaluation of the optimal design of navigational templates for pedicle screw placement in cervical and thoracic spine. Cadaveric study results	17:35 - 17:39
<i>Abstract Presenter:</i> Kashin Vasily (St.Petersburg, Russian Federation)	
Individualized 3-Dimensional Guide for Cervicothoracic Junction Pedicle Screw Placement	17:39 - 17:43
<i>Abstract Presenter:</i> Ceren Kızmaçoğlu (izmir, Turkey)	
Q+A	17:43 - 17:50
Initiation of robotic-guided spine surgery: analysis of the first three years at a single center	17:50 - 17:54
<i>Abstract Presenter:</i> Mirza Pojskic (Marburg, Germany)	
Guided posterior vertebral modulation: A new fusionless technique for correction of adolescent idiopathic scoliosis	17:54 - 17:58
<i>Abstract Presenter:</i> Gonzalo Mariscal (Spain)	
Navigated spinal spondylodesis using intraoperative cone beam CT imaging - experience after more than 100 consecutive surgical cases	17:58 - 18:02
<i>Abstract Presenter:</i> Uwe Spetzger (Karlsruhe, Germany)	
Augmented Reality versus Freehand Spinopelvic Fixation in Spinal Deformity - A Case-Control Study	18:02 - 18:12
<i>Abstract Presenter:</i> Tej Azad (United States)	
Navigation in Spinal Surgery: Nice to have or essential	18:12 - 18:16
<i>Abstract Presenter:</i> Louis Nel (Pretoria, South Africa)	
Q+A	18:16 - 18:24
<i>Abstract Presentations</i> 16:30 - 18:30	Auditorium 2
SPINE IV	
<i>Chair:</i> Aderehime Haidara (Cote D'Ivoire)	
<i>Chair:</i> Michael Fehlings (Canada)	
Deep Learning on Preoperative Radiographs for Clinical Success Prediction after Surgery for Cervical Degenerative Disease	16:30 - 16:34
<i>Abstract Presenter:</i> Caroline Maria Wilhelmina Goedmakers (Leiden, Netherlands)	
Proposal of a new score system (Cervical Surgical Score) for management of degenerative cervical myelopathy	16:34 - 16:43
<i>Abstract Presenter:</i> Francesco Costa (Italy)	

Surgical procedure for dropped head syndrome by cervical deformity	16:43 - 16:47
<i>Abstract Presenter:</i> TETSURUYU MITSUYAMA (Tokyo, Japan)	
Clinical and Radiological Outcome of C1-C2 Unilateral Trans-Articular Screw Fixation with Modified Sonntag Wiring in Reducible Atlantoaxial Instability	16:47 - 16:51
<i>Abstract Presenter:</i> Dhruvkumar Baru (India)	
Defining role of atlantoaxial and subaxial spinal instability in the pathogenesis of cervical spinal degeneration	16:51 - 16:55
<i>Abstract Presenter:</i> Atul Goel (Mumbai, India)	
Q+A	16:55 - 17:00
Cervical laminoplasty :What's new ?	17:00 - 17:04
<i>Abstract Presenter:</i> SACHIN BORKAR (new delhi, India)	
Cervical Spinal Canal Stenosis: a Comparison of Incidence and Severity between the Population of Curaçao and Literature	17:04 - 17:08
<i>Abstract Presenter:</i> Mireli A. Mongen (Leiden, Netherlands)	
Epigenomics of miRNAs in Intervertebral Disc Degeneration; A Key to the Future Development of Genetic-Based Therapies; Systematic Review of Literature	17:08 - 17:12
<i>Abstract Presenter:</i> Fariborz Ghaffarpasand (Shiraz, Iran)	
Screening for Degenerative Cervical Myelopathy (SCREEN-DCM): Preliminary Results of an Ongoing Prospective Multicenter Study	17:12 - 17:16
<i>Abstract Presenter:</i> Aria Nouri (Switzerland)	
Q+A	17:16 - 17:22
JOURNEY OF CERVICAL DISC REPLACEMENT IN TWENTY FIRST CENTURY FLASHBACK AND CHALLENGES	17:22 - 17:26
<i>Abstract Presenter:</i> Prafulla Kumar Sahoo (BHUBANESWAR, India)	
Cervical deformity and flare-ups in Disease Activity in Rheumatoid Arthritis	17:26 - 17:30
<i>Abstract Presenter:</i> Carmen Vleggeert-Lankamp (Leiden, Netherlands)	
Motion preservation after cervical total disc replacement surgery- fact or fiction?	17:30 - 17:34
<i>Abstract Presenter:</i> Adrian Kelly (Pretoria, South Africa)	
Abolition of sagittal T7-T10 dynamics during forced ventilation in AIS patients with Lenke 1A curves	17:34 - 17:38
<i>Abstract Presenter:</i> Gonzalo Mariscal (Spain)	
Revision Surgery for Proximal Junctional Failure: A Single-Center Analysis of 54 Adult Spinal Deformity Patients with Long-Term Follow-Up	17:38 - 17:42
<i>Abstract Presenter:</i> Joseph Hudson (United States)	
Comparison of anterior-posterior staged approach versus one-stage posterior approach for adult spinal deformity correction	17:42 - 17:46
<i>Abstract Presenter:</i> Dongkyu Kim (Seoul, Korea, Republic of)	
Investigation of Adjacent Segment Disc Biomechanics in Lumbar Disc and Lumbar Fusion Surgery	17:46 - 17:50
<i>Abstract Presenter:</i> Ceren Kızmaçoğlu (izmir, Turkey)	
Q+A	17:50 - 17:57
Minimally invasive posterior approach for surgical treatment of craniovertebral junction meningiomas: a single center experience	17:57 - 18:01

<i>Abstract Presenter:</i> Nikolay Konovalov (Moscow, Russian Federation)		
	Can arcuate foramen variation of the atlas be a risk factor for posterior circulation ischemic stroke in adults?	18:01 - 18:05
<i>Abstract Presenter:</i> Nese Keser (Istanbul, Turkey)		
	Thoracic myelopathy secondary to ossification of ligamentum flavum: Therapeutic and prognostic study of 9 cases	18:05 - 18:09
<i>Abstract Presenter:</i> Wiem Mansour (Ben Arous, Tunisia)		
	VERTEBROPLASTY- A less Aggressive management alternative for Aggressive Vertebral Hemangiomas	18:09 - 18:13
<i>Abstract Presenter:</i> Dhruvkumar Baru (India)		
	Q+A	18:13 - 18:18
<i>Abstract Presentations</i> 16:30 - 18:30		R2.6A
NEUROTRAUMA II		
<i>Chair:</i> Corrado Iaccarino (Italy)		
<i>Chair:</i> Amos Adeleye (Nigeria)		
<i>Chair:</i> Niklas Marklund (Sweden)		
	Factors influencing septic complications in open skull fractures	16:30 - 16:39
<i>Abstract Presenter:</i> Ruan Grobler (Cape Town, South Africa)		
	AN ANALYSIS OF CRANIOPLASTY COMPLICATIONS ACCORDING TO TIMING OF SURGERY, IMPLANTS' MATERIAL AND INCIDENCE OF POST-TRAUMATIC HYDROCEPHALUS	16:39 - 16:48
<i>Abstract Presenter:</i> Mario Ganau (Oxford, United Kingdom)		
	A RETROSPECTIVE STUDY OF CRANIOPLASTY WITH AUTOGENOUS BONE VS BONE CEMENT VS CUSTOMISED SELF-MOULDED POLYMETHYL METHACRYLATE AT A MULTISPECIALITY HOSPITAL	16:48 - 16:52
<i>Abstract Presenter:</i> Pranshu mehta (Madurai, India)		
	Comparison of Computer designed Patient Specific Titanium implant Cranioplasty with Titanium mesh with PMMA Cranioplasty- A Retrospective Study	16:52 - 16:56
<i>Abstract Presenter:</i> RAJKUMAR POTHIRAJ RAJU (COIMBATORE, India)		
	Cognitive and Functional Outcomes of Early Versus Delayed Cranioplasty after Decompressive Craniectomy	16:56 - 17:00
<i>Abstract Presenter:</i> Biswaranjan Nayak (Bhubaneswar, khordha, India)		
	Reconstructive neurosurgery in rehabilitation of patients with posttraumatic disorders of consciousness	17:00 - 17:04
<i>Abstract Presenter:</i> Yaroslav Latyshev (Russian Federation)		
	Q+A	17:04 - 17:10
	Non-invasive intracranial pressure assessment by optic nerve sheath diameter: automated measurements as an alternative to clinician performed measurements	17:10 - 17:14
<i>Abstract Presenter:</i> Dag Ferner Nettelund (Oslo, Norway)		
	NEUROLOGICAL ASSESSMENT OF ICP WAVEFORM MORPHOLOGY IN SUBJECTS WITHOUT NEUROLOGICAL COMPLAINTS	17:14 - 17:18
<i>Abstract Presenter:</i> Robson Amorim (Manaus, Brazil)		
	Q+A	17:18 - 17:22
	PRESUMPTIVE ANTIOXIDANT THERAPY IN TRAUMATIC BRAIN INJURY- A SINGLE-CENTRE RANDOMIZED CONTROLLED TRIAL	17:22 - 17:31

OF ASCORBIC ACID AND ALPHA-TOCOPHEROL*Abstract Presenter:* Edward Jolayemi (Lagos, Nigeria)

Effect of Dexmedetomidine Hydrochloride (Percedex®) on Functional Outcome of Patients with Moderate and Severe Traumatic Brain Injury 17:31 - 17:35

Abstract Presenter: Fariborz Ghaffarpasand (Shiraz, Iran)

Metagenomic Sequencing of the Skin Microbiota of the scalp predicting the risk of developing Surgical Site Infections following TBI surgery 17:35 - 17:39

Abstract Presenter: HERVE MONKA LEKUYA (KAMPALA, Uganda)

Site-specific Suppression of Complement C3 Activation Halts the Progression of Neuroinflammation after Traumatic Brain Injury - A Translational Approach 17:39 - 17:43

Abstract Presenter: Ali Alawieh (United States)

Extracellular vesicle protein markers in traumatic brain injury 17:43 - 17:47

Abstract Presenter: Arthur Disegna (Oxford, United Kingdom)

Q+A 17:47 - 17:53

Resting State Networks in Patients with Acute Disorders of Consciousness After Severe Traumatic Brain Injury 17:53 - 17:57

Abstract Presenter: Edgar Gerardo Ordonez Rubiano (Bogota, Colombia)

The incidence and anatomical location of magnetic resonance T2 white matter hyperintensities in patients presenting to a specialist sports concussion clinic 17:57 - 18:01

Abstract Presenter: Sheikh Muktaadir Bin Momin (Birmingham, United Kingdom)

Endoscopic Management Of Traumatic CSF Rhinorrhea: An Institutional Experience 18:01 - 18:05

Abstract Presenter: selvamuthukumaran krishnamoorthy (Madurai, India)

Impact of a large geographical area on outcomes in acute traumatic intracranial extra-axial haemorrhage requiring urgent surgical evacuation 18:05 - 18:09

Abstract Presenter: Sarah Olson (brisbane, Australia)

Q+A 18:09 - 18:13

Abstract Presentations

16:30 - 18:30

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SKULL BASE II*Chair:* Imad Kanaan (Saudi Arabia)*Chair:* Kenan Arnautovic (United States)*Chair:* Eduard Zverina (Prague, Czech Republic)

Pathological anatomy of arachnoid in large vestibular schwannomas and its relevance to facial nerve preservation: Personal experience of 835 cases 16:30 - 16:39

Abstract Presenter: Suresh Nair Narayanan Nair (Trivandrum, India)

Intracanalicular vestibular schwannoma - treatment management 16:39 - 16:43

Abstract Presenter: Eduard Zverina (Prague, Czech Republic)

Multidisciplinary approach to SRS in vestibular schwannomas 16:43 - 16:47

Abstract Presenter: Evangelos Drosos (United Kingdom)

A comparative study of microsurgery and gamma knife radiosurgery in vestibular schwannoma evaluating tumor control and functional outcome 16:47 - 16:51

Abstract Presenter: Marcos Tatagiba (Tübingen, Germany)

Cystic Vestibular Schwannoma - a subgroup analysis from a comparative study between radiosurgery and microsurgery	16:51 - 16:55
<i>Speaker:</i> Sophie Shih-Yüing Wang (Tübingen, Germany)	
Q+A	16:55 - 17:00
Diamond knife dissection technique for cochlear and facial nerve preservation during resection of vestibular schwannomas (VS)	17:00 - 17:04
<i>Abstract Presenter:</i> Karl Roessler (Vienna, Austria)	
Prediction of Growth after Near-total Resection of Sporadic Vestibular Schwannomas: A Retrospective Volumetric Study and Review of Literature	17:04 - 17:08
<i>Abstract Presenter:</i> Daniela Stastna (CAMBRIDGE, United Kingdom)	
Recovery of early post-operative facial weakness in vestibular schwannoma surgery	17:08 - 17:12
<i>Abstract Presenter:</i> Evangelos Drosos (United Kingdom)	
Use of microscope-based augmented reality (AR) for microsurgical resection of acoustic neurinomas	17:12 - 17:16
<i>Abstract Presenter:</i> Mirza Pojskic (Marburg, Germany)	
Radiosurgery-associated new-onset Facial Spasm after the treatment of vestibular schwannoma is associated with incidence of recurrence	17:16 - 17:20
<i>Abstract Presenter:</i> Sophie Shih-Yüing Wang (Tübingen, Germany)	
Q+A	17:20 - 17:25
The impact of internal auditory canal extension on functional outcome in vestibular schwannoma treatment	17:25 - 17:29
<i>Abstract Presenter:</i> Marcos Tatagiba (Tübingen, Germany)	
Vestibular Schwannoma: Failure of the partial resection and stereo radiosurgery	17:29 - 17:33
<i>Speaker:</i> Eduard Zverina (Prague, Czech Republic)	
Continuous facial corticobulbar motor evoked potential monitoring during vestibular- schwannoma surgery for tailoring extent of resection and avoiding permanent facial palsy	17:33 - 17:37
<i>Abstract Presenter:</i> Karl Roessler (Vienna, Austria)	
OUTCOME AND RECURRENCE RATE IN VESTIBULAR SCHWANNOMA SURGERY WITHOUT INTERNAL AUDITORY CANAL DRILLING	17:37 - 17:41
<i>Abstract Presenter:</i> Manas Panigrahi (Hyderabad, India)	
Jugular Foramen Schwannomas. Long term results	17:41 - 17:45
<i>Abstract Presenter:</i> Eduard Zverina (Prague, Czech Republic)	
Management of Jugular Foramen Meningioma: A Single Institution outcome study	17:45 - 17:49
<i>Abstract Presenter:</i> ROHAN ROY (MUMBAI, India)	
Q+A	17:49 - 17:54
Surgical management of trigeminal schwannomas: defining the role of various approaches	17:54 - 17:58
<i>Abstract Presenter:</i> Suresh Nair Narayanan Nair (Trivandrum, India)	
Idiopathic Trigeminal Neuralgia : various modalities of treatment and its long term outcomes	17:58 - 18:02
<i>Abstract Presenter:</i> Prabu Raj Andiperumal Raj (Bangalore, India)	
ePTFE Sleeve Microvascular Decompression Technique for	18:02 - 18:06

Trigeminal Neuralgia and Hemifacial Spasm*Abstract Presenter:* Erik Burgos-Sosa (Mexico, Mexico)**Q+A**

18:06 - 18:09

Abstract Presentations

16:30 - 18:30

R2.4A

PAEDIATRIC NEUROSURGERY II*Chair:* John Gooden (United Kingdom)*Chair:* Mohamed El Beltagy (Egypt)*Chair:* Nqobile Thango (South Africa)**Transition of hydrocephalus patients from paediatric to adult neurosurgery: a single institution experience**

16:30 - 16:39

Abstract Presenter: Lucia Darie (London, United Kingdom)**Hindbrain Herniation as a Criteria for Fetal Myelomeningocele Repair: A Natural History Study**

16:39 - 16:48

Abstract Presenter: Jacob Leopard (Houston, United States)**The Transition from Paediatrics to Adult Services for Patients with Spinal Dysraphism: Areas For Improvement**

16:48 - 16:52

Abstract Presenter: Barbora Krivankova (United Kingdom)**Refractory epilepsy after brain tumor resection in children**

16:52 - 16:56

Abstract Presenter: George Jallo (St Petersburg, United States)**Supraorbital Craniotomy for Resection of Brain Tumors in Children**

16:56 - 17:00

Abstract Presenter: George Jallo (St Petersburg, United States)**Q+A**

17:00 - 17:06

A multicentre clinicopathological review of paediatric posterior fossa tumours in a developing country over eighteen years

17:06 - 17:10

Abstract Presenter: Renée Cruickshank (Kingston, Jamaica)**Intraoperative high field MR (3Tesla) imaging for epilepsy and tumors in pediatric neurosurgery**

17:10 - 17:14

Abstract Presenter: Karl Roessler (Vienna, Austria)**Q+A**

17:14 - 17:20

Neurocognitive and endocrinological outcomes following treatment in children with craniopharyngioma

17:20 - 17:24

Abstract Presenter: Arivazhagan Arimappamagan (Bengaluru, India)**Paediatric brain tumour management in low, middle, and high-income countries: a multi-centre, international, cross-sectional study (preliminary results)**

17:24 - 17:28

Abstract Presenter: Soham Bandyopadhyay (United Kingdom)**Advantages of Laser induced thermal therapy (LITT) in children suffering from refractory epilepsy using a 3T intraoperative MRI Suite.**

17:28 - 17:32

Abstract Presenter: Karl Roessler (Vienna, Austria)**Towards better definition of a resection strategy in pediatric LEATs causing refractory epilepsy**

17:32 - 17:36

Abstract Presenter: Karl Roessler (Vienna, Austria)**Seizure control and functional outcome of pediatric hemispherotomy in 38 cases**

17:36 - 17:40

Abstract Presenter: Michal Tichy (Praha 5, Czech Republic)**Q+A**

17:40 - 17:46

Central nervous system hydatid disease in a South African paediatric population: A case series	17:46 - 17:50
<i>Abstract Presenter:</i> Stefan Kruger (Cape Town, South Africa)	
Neuromodulation of NBIA-related dystonia	17:50 - 17:54
<i>Abstract Presenter:</i> Victor Mandat (Mississauga, Canada)	
Exo-endoscopic surgery of a choroid plexus papillomas in children	17:54 - 17:58
<i>Abstract Presenter:</i> Albert Sufianov (Moscow, Russian Federation)	
10,000-FOLD EFFECT BY A NITRIC-OXIDE-DONOR (SODIUM NITROPRUSSIDE) IN DUCHENNE MUSCULAR DYSTROPHY VIA INTRATHECAL SUPERFUSION OF SODIUM NITROPRUSSIDE AND ORAL TADALAFIL	17:58 - 18:02
<i>Abstract Presenter:</i> VINOD KUMAR (LUCKNOW, India)	
Q+A	18:02 - 18:09
<i>Abstract Presentations</i> 16:30 - 18:30	R2.4B
FUNCTIONAL - EPILEPSY	
<i>Chair:</i> Adriano Cattani (Montreal, Canada) <i>Chair:</i> Roger Melvill (South Africa)	
GABAergic interneuron cell therapy for mesial temporal lobe epilepsy: Non-human primate implants and early results from a first-in-human trial	16:30 - 16:39
<i>Abstract Presenter:</i> Kim Burchiel (Portland, United States)	
The Long-Term Use of Diagnostic Subdural EEG electrodes And Subdural Hematoma (DISEASE): A Prospective Cohort Study	16:39 - 16:48
<i>Abstract Presenter:</i> Florian Gessler (Germany)	
Long-term clinical outcomes of patients receiving modified anatomical hemispherectomy for treatment of refractory epilepsy	16:48 - 16:57
<i>Abstract Presenter:</i> Richard J. Burman (Oxford, United Kingdom)	
A Retrospective Non-Randomized Investigation into Potential Technical and Clinical Benefits of Intraoperative Ultrasound during Epilepsy Surgery for Focal Cortical Dysplasia	16:57 - 17:01
<i>Abstract Presenter:</i> Keith Simfukwe (Moscow, Russian Federation)	
Q+A	17:01 - 17:06
Minimally invasive endoscopic management of hypothalamic hamartoma - A Single center experience!	17:06 - 17:10
<i>Abstract Presenter:</i> Keith Simfukwe (Moscow, Russian Federation)	
Epilepsy and low-grade glioma: seizure control after surgical resection - a retrospective cohort study	17:10 - 17:14
<i>Abstract Presenter:</i> Saqib Kamran Bakhshi (Karachi, Pakistan)	
Age at onset of epilepsy rather than subtype determines pre- and postoperative profiles of patients with focal cortical dysplasia	17:14 - 17:18
<i>Abstract Presenter:</i> Anna-Laura Potthoff (Bonn, Germany)	
ENDOSCOPIC EPILEPSY SURGERY	17:18 - 17:22
<i>Abstract Presenter:</i> Albert Sufianov (Moscow, Russian Federation)	
Long term incidence of seizures post craniotomy and tumour resection with prophylactic antiepileptic drugs	17:22 - 17:26
<i>Abstract Presenter:</i> Ning Zhu (Brisbane, Australia)	
Q+A	17:26 - 17:31

Underutilization of epilepsy surgery in Pakistan: Ten-year experience from the only Comprehensive Epilepsy Center in the country	17:31 - 17:35
<i>Abstract Presenter:</i> Saqib Kamran Bakhshi (Karachi, Pakistan)	
Surgically Remediable Epilepsy Syndromes in Neurocutaneous disorders - A case series from a comprehensive epilepsy care centre	17:35 - 17:39
<i>Abstract Presenter:</i> Darshan H R (India)	
Morphometrics of Multilobar resections for epilepsy	17:39 - 17:43
<i>Abstract Presenter:</i> GEORGE VILANILAM (TRIVANDRUM, India)	
Bridging Pediatric Epilepsy Surgery with Basic Science: From sEEG to Intracellular Recordings	17:43 - 17:47
<i>Abstract Presenter:</i> Adriano Cattani (Montreal, Canada)	
Q+A	17:47 - 17:52
<i>Abstract Presentations</i> 16:30 - 18:30	R1.4A
NEURO-ONCOLOGY	
<i>Chair:</i> Edjah Nduom (United States) <i>Chair:</i> Lewis Thorne (United Kingdom)	
Voridenib in IDH1- or IDH2-Mutant Low-Grade Glioma	16:30 - 16:39
<i>Abstract Presenter:</i> Deborah Blumenthal (Israel)	
Unraveling the Intricacies of Brain Network Connectivity in Primary and Secondary Brain Tumors: A Machine-Learning-based exploratory analysis of Large-Scale Network	16:39 - 16:48
<i>Abstract Presenter:</i> Michael E. Ivan (Miami, United States)	
Pre-operative Stereotactic Radiosurgery (SRS) for Brain Metastases: a prospective observational study	16:48 - 16:52
<i>Abstract Presenter:</i> Sarah Olson (brisbane, Australia)	
Enhancing Radiomics in Neurosurgery: Insights from a Set of Studies	16:52 - 16:56
<i>Abstract Presenter:</i> Gleb Danilov (Russian Federation)	
Prediction of tumor-associated antigens using radiogenomics	16:56 - 17:00
<i>Abstract Presenter:</i> Elizabeth Ogando-Rivas (United States)	
Hyperspectral imaging for intra-operative characterisation of brain tumours, margins, and eloquent connectomes	17:00 - 17:04
<i>Abstract Presenter:</i> Giulio Anichini (London, United Kingdom)	
Q+A	17:04 - 17:08
Life-style, reproductive and metabolic factors and risk for meningioma in women: A prospective population-based study (COhort of NORway)	17:08 - 17:12
<i>Abstract Presenter:</i> Anamaria Gheorghiu (Bucharesti, Romania)	
Spatial Distribution of Meningiomas: A Magnetic Resonance Image Atlas	17:12 - 17:16
<i>Abstract Presenter:</i> Wenya Linda Bi (United States)	
Machine learning-based tumor shape analysis as a novel tool for preoperative WHO grade estimation in surgery for intracranial meningioma	17:16 - 17:20
<i>Abstract Presenter:</i> Patrick Schuss (Germany)	
Technical nuances and long-term results of endovascular venous stenting to control venous hypertension from meningiomas	17:20 - 17:24

	invading intracranial venous sinuses	
<i>Abstract Presenter:</i>	Sherif Kirollos (United Kingdom)	
	Patient-Specific 3D-Printed Topographical Cerebral Surface Anatomy for Presurgical Planning for Meningiomas	17:24 - 17:28
<i>Abstract Presenter:</i>	Ceren Kızmaçoğlu (izmir, Turkey)	
	Q+A	17:28 - 17:32
	Intraoperative Video-Photodiagnosis during Resection of Pituitary Adenomas with Chlorin e6 Photosensitizer	17:32 - 17:36
<i>Abstract Presenter:</i>	Igor Trifonov (Russian Federation)	
	Awake Craniotomy for Intra-axial Brain Tumors Does not Affect Size of Residual Disease: a Systematic Review and Meta-Analysis	17:36 - 17:40
<i>Abstract Presenter:</i>	Saqib Kamran Bakhshi (Karachi, Pakistan)	
	Resection of the Cavernous Sinus Medial Wall Improves Remission Rate in Functioning Pituitary Tumors: Retrospective Analysis of 248 Consecutive Cases	17:40 - 17:44
<i>Abstract Presenter:</i>	Atsushi Ishida (Edogawa-ku, Japan)	
	Q+A	17:44 - 17:47
	Animal Stereotactic Device for Preclinical Research on Tumor Response After Radiosurgery	17:47 - 17:51
<i>Abstract Presenter:</i>	GI YOUNG KWEON (Korea, Republic of)	
	Inhibition of intercellular communication via gap junctions renders medulloblastoma cells more susceptible for cytotoxic therapy	17:51 - 17:55
<i>Abstract Presenter:</i>	Anna-Laura Potthoff (Bonn, Germany)	
	Photodynamic therapy for Malignant Brain Tumors	17:55 - 17:59
<i>Abstract Presenter:</i>	Igor Trifonov (Russian Federation)	
	Computational Neuroscience in Neurosurgery	17:59 - 18:03
<i>Abstract Presenter:</i>	Giovanni Tringali (Palermo, Italy)	
	Q+A	18:03 - 18:07
	Surgical Treatment of Intradural Extramedullary Tumors	18:07 - 18:11
<i>Abstract Presenter:</i>	Andrés Cervio (Buenos Aires, Argentina)	
	Giant Malignant Peripheral Nerve Sheath Tumor of the Scalp, Institutional Experience	18:11 - 18:15
<i>Abstract Presenter:</i>	Vikas Chandra Jha (PATNA, India)	
	Fatigue, Anxiety and Cognitive function in Neurosurgical Patients: a prospective multi-centre longitudinal study	18:15 - 18:19
<i>Abstract Presenter:</i>	Anne Jian (Parkville, Australia)	
	Effect of the Enhanced Recovery After Surgery Protocol in Patients with Brain Tumors Undergoing Elective Craniotomies: A Meta-Analysis	18:19 - 18:23
<i>Abstract Presenter:</i>	Suchada Supbumrung (Thailand)	
	Q+A	18:23 - 18:28
<i>Abstract Presentations</i>		
16:30 - 18:30		R1.4B
	GLOBAL NEUROSURGERY II	
<i>Chair:</i>	Sam Ohaegbulam (Nigeria)	
<i>Chair:</i>	Robert Dempsey (Madison, United States)	
	Aetiology and diagnostics of paediatric hydrocephalus across	16:30 - 16:39

	Africa: a systematic review and meta-analysis	
<i>Abstract Presenter:</i>	Camilla Grøver Aukrust (Oslo, Norway)	
	NousNav: an open-source, low cost, sustainable, and portable neuro-navigation system for LMIC	16:39 - 16:48
<i>Abstract Presenter:</i>	Alexandra Golby (Boston, United States)	
	Using unsupervised segmentation technique to develop a Surgeon-machine Interface for intraoperative neurosurgical guidance	16:48 - 16:52
<i>Abstract Presenter:</i>	Jay J. Park (United States)	
	Global pediatric epilepsy surgery: developing a multidisciplinary program in Uganda	16:52 - 16:56
<i>Abstract Presenter:</i>	Sandi Lam (Chicago, United States)	
	Q+A	16:56 - 17:00
	Quantifying Delays in Presentation After Traumatic Spinal Cord Injury - A Systematic Review	17:00 - 17:04
<i>Abstract Presenter:</i>	Tej Azad (United States)	
	Update on Global Neurotrauma Outcomes Study Spine: International, multi-centre, prospective study on the injury profile, management and outcomes of TSI	17:04 - 17:08
<i>Abstract Presenter:</i>	Saniya Mediratta (Cambridge, United Kingdom)	
	Advancements in Technology Enabling Remote Surgical Teaching in Low- and Middle-Income Countries (LMICs)	17:08 - 17:12
<i>Abstract Presenter:</i>	Robert Dempsey (Madison, United States)	
	A SYSTEMATIC REVIEW AND META-ANALYSIS ON THE SURGICAL VERSUS ENDOVASCULAR TREATMENT FOR RUPTURED INTRACRANIAL ANEURYSMS FROM A GEOGRAPHICAL PERSPECTIVE	17:12 - 17:16
<i>Abstract Presenter:</i>	Dorcas Sackey (United Kingdom)	
	THE FULL ORBITO-ZYGOMATIQUE APPROACH IN NEUROSURGICAL PRACTICE IN CHAD	17:16 - 17:20
<i>Abstract Presenter:</i>	Yannick CANTON KESSELY (N'Djamena, Chad)	
	Atlas Neurosurgical Navigation System: Bedside Neurotrauma Navigation for Global Settings	17:20 - 17:24
<i>Abstract Presenter:</i>	Alexander Smith (Urbana, United States)	
	Q+A	17:24 - 17:28
	Geographical Distribution of Neurosurgeons and Emergency Neurosurgical Services in Pakistan	17:28 - 17:32
<i>Abstract Presenter:</i>	Saqib Kamran Bakhshi (Karachi, Pakistan)	
	Endoscopic treatment of neurosurgical pathologies: experience and future prospects in the Neurosurgery Department at Mohammed 6 University Hospital, Marrakech	17:32 - 17:36
<i>Abstract Presenter:</i>	Badr Draï (Marrakesh, Morocco)	
	Integrating Military and Civilian Resources to Improve Global Neurosurgical Care	17:36 - 17:40
<i>Abstract Presenter:</i>	Russell Andrews (Los Gatos, United States)	
	A novel SMS-based follow-up technology for the remote assessment of global outcome following traumatic brain injury: a pilot evaluation	17:40 - 17:44
<i>Abstract Presenter:</i>	Peter Hutchinson (Cambridge, United Kingdom)	
	Intraoperative Ultrasound Navigation in Neurosurgery - Using less for more!!	17:44 - 17:48

Abstract Presenter: Keith Simfukwe (Moscow, Russian Federation)

Q+A 17:48 - 17:52

When surgery is unaffordable: health economics of cranial reconstruction following decompressive craniectomy for TBI - findings from an international survey 17:52 - 17:56

Abstract Presenter: Sara Venturini (Cambridge, United Kingdom)

Secondary Brain Abscess after Neurosurgical Procedures (SBA): A 12-Years Retrospective Analysis in a Brazilian Tertiary Hospital 17:56 - 18:00

Abstract Presenter: Matheus Felipe de Souza Vasconcelos (Brazil)

Intracranial suppurations, retrospective study of 18 years in Ibn Tofail hospital, Marrakech 18:00 - 18:04

Abstract Presenter: Yassine Ait M'barek (Marrakech, Morocco)

Q+A 18:04 - 18:08

A comparative analysis of outcomes following cranioplasty with autologous bone, titanium mesh, and polymethyl methacrylate in Durban, South Africa 18:08 - 18:12

Abstract Presenter: Diketso Mathebula (Durban, South Africa)

Three-dimensional custom-made porous polyethylene cranioplasty in patients at high risk for surgical site infection - mono-institutional study 18:12 - 18:16

Abstract Presenter: Jan Mracek (Czech Republic)

Title: Awake Craniotomy - A Single Centre Experience in a tertiary care hospital 18:16 - 18:20

Abstract Presenter: S Aditya Sivaram (Chennai, India)

Impact of the COVID-19 pandemic on stroke care quantified: the Bronx experience 18:20 - 18:24

Abstract Presenter: Sahar Sorek (United States)

Q+A 18:24 - 18:28

Abstract Presentations

16:30 - 18:30

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EDUCATION

Chair: Nasser El-Ghandour (Egypt)

Chair: Claudio Yampolsky (Argentina)

Current challenges in neurosurgical training in the UK and viable solutions for improvement 16:30 - 16:34

Abstract Presenter: Evangelos Drosos (United Kingdom)

Analysis of reasons for medical malpractice litigation in open cranial neurosurgery in the United States 16:34 - 16:38

Abstract Presenter: Saksham Gupta (United States)

Photogrammetry for Reconstruction of High-Quality 3D Models to Aid Residents Education and Intraoperative Surgical Field Documentation and Measuring 16:38 - 16:42

Abstract Presenter: Daniel Ballesteros Herrera (Mexico)

Do Neurosurgeons Receive More Patient Complaints Than Other Surgeons? Evaluating Risk-taking Behaviour Between 2018 and 2022 in UK Neurosurgical Units 16:42 - 16:46

Abstract Presenter: Jack Graham (United Kingdom)

The status of specialist neurosurgical training in Nigeria: A survey of practitioners, trainers, and trainees 16:46 - 16:50

<i>Abstract Presenter:</i> Alvan Ukachukwu (Durham, United States)		
	H index and other impact factors in neurosurgical publications - Is there a 'cost factor' that determines the quality?	16:50 - 16:54
<i>Abstract Presenter:</i> Katarzyna Julia Minta (United Kingdom)		
	The contribution of qualitative research to neurosurgery and the patients and families affected by neurosurgical conditions: A scoping review	16:54 - 16:58
<i>Abstract Presenter:</i> Charlotte Whiffin (Derby, United Kingdom)		
	Development of a Pediatric Neurosurgical Visual Analytics Tool to Track and Monitor Adverse Events, Develop Quality Metrics, and Improve Outcomes	16:58 - 17:02
<i>Abstract Presenter:</i> Luis Rodriguez (St Petersburg, United States)		
	Cost-Utility Analysis of Outpatient Lumbar Microdiscectomy: A Comparative Assessment of Hospitalization Costs and Clinical Outcomes	17:02 - 17:06
<i>Abstract Presenter:</i> Kajetan Latka (Opole, Poland)		
	Obstetrical outcome in patients with dysraphism: interest of an enlightened neurosurgical advice through new Orphanet spinal dysraphisms classification	17:06 - 17:10
<i>Abstract Presenter:</i> Timothée de Saint-Denis (Paris, France)		
	Post Covid-19 evolution of our neurosurgical and nursing practice and activities	17:10 - 17:14
<i>Abstract Presenter:</i> Myriam THYS (Charleroi, Belgium)		
	Preoperative neurosurgical planning using free mobile application	17:14 - 17:18
<i>Abstract Presenter:</i> Vikrant Keshri (Vadodara, India)		
	An International Comparison of Out-of-Pocket Expenditures for Emergency Neurosurgical Care	17:18 - 17:22
<i>Abstract Presenter:</i> Hannah Gilder (United States)		
	Neurosurgery in the Outback: How upskilling General Surgeons in Australia's Red Centre can have tangible lifesaving benefits	17:22 - 17:26
<i>Abstract Presenter:</i> Rondhir Jithoo (Australia)		
	History of Women in Brazilian Neurosurgery: path of pioneer women and integration with the future	17:26 - 17:30
<i>Abstract Presenter:</i> Iracema Araújo Estevão (São Paulo, Brazil)		
	Informed consent procedures for emergency interventional research in patients with hemorrhagic stroke, aneurysmal subarachnoid hemorrhage and traumatic brain injury	17:30 - 17:34
<i>Abstract Presenter:</i> Wilco (Willem) Peul (Leiden & The Hague, Netherlands)		
	PSYCHOLOGICAL IMPACT OF COMPLICATIONS IN NEUROSURGERY	17:34 - 17:38
<i>Abstract Presenter:</i> IDOYA ZAZPE (Spain)		
	Comparative Analysis Between Urban vs. Rural Hospitals for Patient Demographics and Perioperative Outcomes After Lumbar Spinal Fusion	17:38 - 17:42
<i>Abstract Presenter:</i> Mohamed Soliman (Egypt)		
	Update on the development of a clinical practice guideline for patients with chronic subdural haematoma and translation to other settings	17:42 - 17:46
<i>Abstract Presenter:</i> Peter Hutchinson (Cambridge, United Kingdom)		

Thursday, 07. December 2023*Breakfast Symposium*

07:30 - 08:30

Ballroom East

INNOVATIONS IN IMAGING AND VISUALIZATION: Neurotrauma*Chair:* Virendra Deo Sinha (India)*Chair:* Hiroshi Karibe (Japan)*Chair:* Opara Oluwamayowa (Nigeria)*Chair:* Hemraz Boodhoo (Mauritius)**Optic sheath imaging in Neurotrauma**

07:30 - 07:39

Speaker: Abenezer Tirsit (Ethiopia)**Ultrasound in Neurotrauma: Advances in Non-invasive Assessment**

07:39 - 07:48

Speaker: Llewellyn Padayachy (South Africa)**Indirect ICP assessment using ONSD to indicate necessity for invasive monitoring**

07:48 - 07:57

Speaker: Martin Schuhmann (Germany)**Importance of ICP monitoring after decompressive craniectomy**

07:57 - 08:06

Speaker: Wellingson Paiva (Brazil)**Traumatic Brain Injury and Indices of Multiple Deprivation: How does TBI differ?**

08:06 - 08:15

Speaker: Guirish Solanki (United Kingdom)**Discussion**

08:15 - 08:21

Breakfast Symposium

07:30 - 08:30

R2.6A

MASTERCLASS IN RESEARCH: Vascular: Haemorrhagic stroke*Chair:* Claudio Yampolsky (Argentina)*Chair:* Omotayo Ojo (Nigeria)**Deep seated basal ganglia hematomas. STICH trial results. Experience in an University Hospital**

07:30 - 07:40

Speaker: Claudio Yampolsky (Argentina)**Spontaneous Basal Ganglia Hematoma. Is There a Benefit from Surgery?**

07:40 - 07:50

Speaker: Christopher Kellner (United States)**Management of Aneurysmal Subarachnoid Haemorrhage**

07:50 - 08:00

Speaker: Omotayo Ojo (Nigeria)**Therapeutic modulation of neuroinflammation after brain haemorrhage**

08:00 - 08:10

Speaker: James Loan (United Kingdom)**Evolving role of Middle Meningeal Artery embolization in the treatment of Chronic Subdural Hematoma**

08:10 - 08:20

Speaker: Thomas Ajith (United States)*Breakfast Symposium*

07:30 - 08:30

R2.6B

MASTERCLASS IN RESEARCH: Neurotrauma*Chair:* Andrew Reisner (United States)*Chair:* Llewellyn Padayachy (South Africa)*Chair:* Randall Chesnut (United States)**Proposed new table of evaluation of the risk of hemorrhagic**

07:30 - 07:42

progression in patients who experienced TBI under anti thrombotic therapy	
<i>Speaker:</i> Corrado Iaccarino (Italy)	
Guidelines - an update on the Brain Trauma Foundation guidelines and recent methodologic 'changes'	07:42 - 07:54
<i>Speaker:</i> Gregory Hawryluk (United States)	
Pro's and Con's of CER methodology versus -traditional RCT in Neurotrauma	07:54 - 08:06
<i>Speaker:</i> Wilco Peul (Netherlands)	
Translational TBI research: white matter pathology, inflammation and neurodegeneration in human contusions- and in animal models	08:06 - 08:18
<i>Speaker:</i> Niklas Marklund (Sweden)	
Discussion	08:18 - 08:30
<i>Breakfast Symposium</i> 07:30 - 08:30	R2.4A
MASTERCLASS IN RESEARCH: High Intensity Focused Ultrasound	
HIFU for intention tremor	07:30 - 07:45
<i>Speaker:</i> Gerardo Iacopino (Italy)	
Sonodynamic therapy for brain tumours	07:45 - 08:00
<i>Speaker:</i> Francesco Prada (Italy)	
Blood brain barrier opening using Focused Ultrasound	08:00 - 08:15
<i>Speaker:</i> Elisa Konofagou (United States)	
Discussion	08:15 - 08:30
<i>Breakfast Symposium</i> 07:30 - 08:30	R2.4B
INNOVATIONS IN IMAGING AND VISUALIZATION: Vascular	
<i>Chair:</i> David LeFeuvre (South Africa) <i>Chair:</i> Jorge Mura (Chile)	
Training in interventional vascular neurosurgery	07:30 - 07:40
<i>Speaker:</i> David LeFeuvre (South Africa)	
CT vs MRI for Triage in Stroke (the meta-analysis)	07:40 - 07:50
<i>Speaker:</i> Nourou Dine Adeniran Bankole (Tours, France)	
Extradural Minipretemporal Approach MIPLATTA for Vascular Lesions of Posterior Circulation	07:50 - 08:00
<i>Speaker:</i> Jorge Mura (Chile)	
Results of the ENRICH RCT trial for MIS evacuation of ICH	08:00 - 08:10
<i>Speaker:</i> Clemens Schirmer (United States)	
Pressure measurement in Moyamoya bypass	08:10 - 08:20
<i>Speaker:</i> Bin Xu (China)	
<i>Breakfast Symposium</i> 07:30 - 08:30	R1.4A
MASTERCLASS IN RESEARCH: Research in Global Neurosurgery	
<i>Chair:</i> Ignatius Esene (Cameroon)	
Application of Translational -Omics Research in Low-Resource Settings	07:30 - 07:40

Speaker: Wenya Linda Bi (United States)

Promoting research in global neurosurgery in Ukraine

07:40 - 07:50

Speaker: James Rutka (Canada)

Neurosurgery Journal Publishing and Global Health Care Issues

07:50 - 08:00

Speaker: Doug Kondziolka (United States)

Capacity building in LMIC Using a Structured Online Curriculum

08:00 - 08:10

Speaker: Mojgan Hodaie (Canada)

Mitigating Research Deficiencies and Disparities in Neurosurgery: Miles & Smiles

08:10 - 08:20

Speaker: Ignatius Esene (Cameroon)

Discussion

08:20 - 08:30

Breakfast Symposium

07:30 - 08:30

R1.4B

MASTERCLASS IN RESEARCH: Research in Paediatric Neurosurgery

Chair: Conor Mallucci (United Kingdom)

Chair: Jay Riva Cambrin (Canada)

Registries and network collaborations

07:30 - 07:48

Speaker: Jay Riva Cambrin (Canada)

How to conceive, organize, and run a clinical trial

07:48 - 08:06

Speaker: Conor Mallucci (United Kingdom)

Training as a neurosurgeon for a research-focussed career

08:06 - 08:24

Speaker: Abhaya Kulkarni (Canada)

Discussion

Discussion

08:24 - 08:30

Headline Topics

08:30 - 10:00

Ballroom East

ADVOCACY IN NEUROSURGERY: World Forum

Chair: Graham Fieggen (South Africa)

Chair: Marcos Masini (Brazil)

Chair: Marco Molina (Honduras)

Opening remarks

08:30 - 08:35

Speaker: Graham Fieggen (South Africa)

Speaker: Marcos Masini (Brazil)

Speaker: Marco Molina (Honduras)

Affordable Neurosurgical Technologies and Techniques for Low-Income Regions

08:35 - 08:45

Speaker: Kate Drummond (Australia)

Affordable Neurosurgical Technologies and Techniques for Low-Income Regions

08:45 - 08:55

Speaker: Andreas Demetriades (United Kingdom)

Skull base cranial surgery in relation to low-income areas and needs

08:55 - 09:05

Speaker: Luis Borba (Brazil)

Peripheral Nerve surgery in relation to low-income areas and needs

09:05 - 09:15

Speaker: Lukas Rasulic (Serbia)

Strategies for Spinal Fixation with Limited Resources in low-income countries

09:15 - 09:25

Speaker: Sachin Borkar (India)

Neuro-learning and Neuro-teaching - A New Modality applied to the program for educational residency of Neurosurgery	09:25 - 09:35
<i>Speaker:</i> Marco Molina (Honduras)	
Hydrostatic features of CSF physiology	09:35 - 09:45
<i>Speaker:</i> Miroslav Vukić (Croatia)	
WFNS WINS study on global perspectives on parenting in Neurosurgery	09:45 - 09:55
<i>Speaker:</i> Galareh Zadeh (Canada)	
Conclusion	09:55 - 10:00
<i>Speaker:</i> Nelson Oyesiku (United States)	
<i>Speaker:</i> Najia El Abbadi (Morocco)	
<i>Headline Topics</i> 08:30 - 10:00	Auditorium 2
ADVOCACY IN NEUROSURGERY: Skull Base	
<i>Chair:</i> Soichi Oya (Kawagoe, Japan)	
<i>Chair:</i> Patrick Grover (United Kingdom)	
Current situations and challenges in skull base surgery training in Japan	08:30 - 08:40
<i>Speaker:</i> Soichi Oya (Kawagoe, Japan)	
Vestibular schwannoma surgery - AI techniques to improve surgical outcomes	08:40 - 08:50
<i>Speaker:</i> Patrick Grover (United Kingdom)	
Skull Base Surgery: Optimizing the approach	08:50 - 09:00
<i>Speaker:</i> Basant Misra (India)	
The importance of basic science in Skull Base surgery	09:00 - 09:10
<i>Speaker:</i> Linda Bi (United States)	
Building international programs to broaden diversity of neurosurgery through partnership: a success story	09:10 - 09:20
<i>Speaker:</i> Galareh Zadeh (Canada)	
Endoscopic surgical strategies for giant parasellar tumors	09:20 - 09:30
<i>Speaker:</i> Tadashi Watanabe (Japan)	
Multi-disciplinary skull base team: from maximal safe resection to minimal access multiportal surgery	09:30 - 09:40
<i>Speaker:</i> Calvin Mak (Hong Kong)	
A life experience with vestibular schwannomas: a message to the young generation	09:40 - 09:50
<i>Speaker:</i> Eduard Zverina (Prague, Czech Republic)	
Familial trigeminal neuralgia and its treatment. Presentation of 4 families	09:50 - 10:00
<i>Speaker:</i> Enrique Osorio (Colombia)	
<i>Headline Topics</i> 08:30 - 10:00	R2.6A
Special session on Normal Pressure in Hydrocephalus	
<i>Chair:</i> Uwe Kehler (Germany)	
Introduction	08:30 - 08:40
<i>Speaker:</i> Uwe Kehler (Germany)	
Symptoms	08:40 - 08:50

Speaker: Uwe Kehler (Germany)

Diagnostics

08:50 - 09:00

Speaker: Ahmed Toma (United Kingdom)

Treatment of Normal Pressure Hydrocephalus

09:00 - 09:10

Speaker: Richard Edwards (United Kingdom)

Complications

09:10 - 09:20

Speaker: Fernando Pinto (Brazil)

Outcome of shunting

09:20 - 09:30

Speaker: Ahmed Toma (United Kingdom)

What we don't know about NPH

09:30 - 09:45

Speaker: Lewis Thorne (United Kingdom)

Discussion

09:45 - 10:00

Headline Topics

08:30 - 10:00

R2.6B

ADVOCACY IN NEUROSURGERY: Vascular

Chair: Martin Sames (Czech Republic)

Chair: Bin Xu (China)

Unruptured aneurysms - Which aneurysms are indicated for clipping today?

08:30 - 08:40

Speaker: Martin Sames (Czech Republic)

Surgery for large AVMs

08:40 - 08:50

Speaker: Atul Goel (Mumbai, India)

Cerebral revascularization for recurrent nasopharyngeal cancer invading internal carotid artery

08:50 - 09:00

Speaker: Bin Xu (China)

Blood Blister Like Aneurysms / Different approaches

09:00 - 09:10

Speaker: Leonidas Quintana (Vina del Mar, Chile)

Moyamoya syndrome in sudanese padiatric patients with SCD : Future Role of bypass surgery

09:10 - 09:20

Speaker: Muhab Elmahdi (Sudan)

Surgery in carotid stenosis

09:20 - 09:30

Speaker: Aleš Hejčl (Czech Republic)

Headline Topics

08:30 - 09:15

R2.4A

ADVOCACY IN NEUROSURGERY: Neurotrauma, Session A

Chair: Kee Park (United States)

Chair: Marcel Ndayishyigikiye (Namibia)

Chair: Eiichi Suehiro (Japan)

Opening remarks

08:30 - 08:40

Speaker: Kee Park (United States)

Persahwar recommendations: Comprehensive Policy recommendations for Head and spine Injury

08:40 - 08:50

Speaker: Faiqa Filza Khan (Pakistan)

Intersection of brain injury and domestic violence

08:50 - 09:00

Speaker: Edie Zusman (United States)

Psychosocial and environmental modifiers of TBI outcome

09:00 - 09:10

Speaker: Ernest Barthelmy (United States)

Headline Topics

08:30 - 10:00

R1.4A

ADVOCACY IN NEUROSURGERY: Publication ethics and authorship revisited

Chair: Tiit Mathiesen (Denmark)

Ownership of surgical data and authorship

08:30 - 08:40

Speaker: Doug Kondziolka (United States)

Research collaboration between high and low income countries

08:40 - 08:50

Speaker: Claire Karekezi (Kigali, Rwanda)

Equity in Neuroscience Research in Africa

08:50 - 09:00

Speaker: Jantina De Vries (South Africa)

Threats to neurosurgical science - what you measure is what you get

09:00 - 09:10

Speaker: Marco Fontanella (Italy)

Platform journals and paper mills

09:10 - 09:20

Speaker: Tiit Mathiesen (Denmark)

Interactive round table

09:20 - 10:00

Speaker: Doug Kondziolka (United States)

Speaker: Claire Karekezi (Kigali, Rwanda)

Speaker: Marco Fontanella (Italy)

Speaker: Tiit Mathiesen (Denmark)

Speaker: Daniel Prevedello (United States)

Headline Topics

08:30 - 10:00

R1.4B

ADVOCACY IN NEUROSURGERY: Spinal Dysraphism - Joint session between Spine and Paediatric Committees

Chair: Artem Gushcha (Russian Federation)

Chair: Asif Bashir (Pakistan)

Saving Young Kids with Spinal Dysraphism

08:30 - 08:39

Speaker: Kemel A. Ghotme (Colombia)

Africa perspective

08:39 - 08:48

Speaker: Aderehime Haidara (Cote D'Ivoire)

Asian perspective

08:48 - 08:57

Speaker: Sandeep Vaishya (India)

Adult dysraphic tethered cord

08:57 - 09:06

Speaker: Neil Buxton (United Kingdom)

2 Port Fetoscopic Technique of MMC Closure

09:06 - 09:15

Speaker: William Whitehead (United States)

Folic Acid and NTD prevention - Need of the hour

09:15 - 09:24

Speaker: Jogi Pattisapu (United States)

Advocacy toward implementation of WHA 76.19- neurosurgical steps moving forward

09:24 - 09:33

Speaker: Jeff Blount (United States)

Panel discussion

09:33 - 09:42

Speaker: Artem Gushcha (Russian Federation)

Speaker: Graham Fieggen (South Africa)

Headline Topics

08:30 - 10:00

R1.6A

ADVOCACY IN NEUROSURGERY: Complications - Prevention is better than cure (Anticipation and Management)*Chair:* Vladimir Benes (Czech Republic)*Chair:* Andre Grotenhuis (Netherlands)*Chair:* Stefan Florian (Romania)**Introduction**

08:30 - 08:32

Speaker: Keki Turel (India)**VPS Misplacement**

08:32 - 08:37

Speaker: Ekkehard Kasper (Canada)**Chronic CSDH**

08:37 - 08:42

Burrhole drainage for CSDH

08:42 - 08:47

Speaker: Llewellyn Padayachy (South Africa)**Life threatening pneumocephalus followed by bilateral intraventricular haemorrhage after Burr hole drainage of Chronic Subdural Haematoma**

08:47 - 08:52

Speaker: AVINASH HARIDAS (CHERTHALA, India)**Regarding Convexity Meningioma**

08:52 - 08:57

Speaker: Fusao Ikawa (Japan)**Edema in eloquent area bring functional complication post parasagittal sinus small meningioma operation**

08:57 - 09:02

Speaker: Xinyu Yang (Tianjin, China)**Convexity Meningioma surgery related remote cerebellar hemorrhage**

09:02 - 09:07

Speaker: İhsan Solaroğlu (Turkey)**Convexity Meningioma- En Plaque Meningioma Woes and Lessons**

09:07 - 09:12

Speaker: LAXMINARAYAN TRIPATHY (Kolkata, India)**Major haemorrhage after SRS for posterior fossa brain AVM**

09:12 - 09:17

Speaker: Rohen Harrichandparsad (South Africa)**ACDF for the OPLL – My worst experience**

09:17 - 09:22

Speaker: Artem Gushcha (Russian Federation)**Blindness in lumbar spine surgery**

09:22 - 09:27

Speaker: Sandeep Iratwar (Wardha, India)**Post - operative cranial nerve palsies in post covid period**

09:27 - 09:32

Speaker: Hemant Bhartiya (India)**Incidence and significance of asymptomatic haemorrhages in colloid cyst**

09:32 - 09:37

Speaker: Raja Krishnakutty (Dakar, India)**Ischemic complications in Glioma surgery - an underestimated entity**

09:37 - 09:42

Speaker: Aliasgar Moiyadi (India)**Discussion**

09:42 - 09:57

Concluding remarks

09:57 - 10:00

Headline Topics

09:15 - 10:00

R2.4A

ADVOCACY IN NEUROSURGERY: Neurotrauma, Session B*Chair:* Tariq Khan (Pakistan)*Chair:* Ignatius Esene (Cameroon)*Chair:* Franco Servadei (Italy)*Chair:* Gail Rosseau (United States)**An overview of Neurosurgery Advocacy at G4, WHA and WHO**

09:15 - 09:25

Speaker: Roxanna Garcia (United States)**Advocacy efforts to optimize brain health for all-The WHO's Intersectoral Global Action Plan on Epilepsy and other Neurological Disorders, 2022-2031**

09:25 - 09:35

Speaker: Camilla Grøver Aukrust (Oslo, Norway)**Advocacy efforts of Women in Neurosurgery**

09:35 - 09:45

Speaker: Lynne Lucena (Philippines)**Closing remarks**

09:45 - 09:55

Speaker: Gail Rosseau (United States)*ePosters*

09:30 - 16:30

ePoster Area*Refreshment Break*

10:00 - 10:30

Refreshment Break*Plenary Session*

10:30 - 13:00

Auditorium 1

THE DAYS OF OUR LIVES: Building and sustaining your career in Neurosurgery*Chair:* Michael Du Trevou (South Africa)*Chair:* David Adelson (United States)*Chair:* Jesus Lafuente (Spain)**A lifetime of Neuro-endoscopy**

10:30 - 10:45

Speaker: Henry Schroeder (Germany)**Sustaining an academic career in neurosurgery**

10:45 - 11:00

Speaker: James Rutka (Canada)**Maintaining skills in vascular neurosurgery**

11:00 - 11:15

Speaker: Miki Fujimura (Japan)**Communicating neurosurgery and neuroscience to the general public**

11:15 - 11:30

Speaker: Krish Sridhar (Chennai, India)**Building and sustaining your career in functional neurosurgery**

11:30 - 11:45

Speaker: Konstantin Slavin (United States)**Team sports: collaboration and interdisciplinary model to develop a peripheral nerve surgery program**

11:45 - 12:00

Speaker: Rajiv Midha (Canada)**Becoming a hybrid vascular neurosurgeon**

12:00 - 12:15

Speaker: Bin Xu (China)**Sustaining an academic neuro-oncology practice**

12:15 - 12:30

Speaker: Galareh Zadeh (Canada)

'I am not afraid of storms, for I am learning how to sail my ship'. What most affects your daily practice, for good or bad? (Panel discussion)	12:30 - 13:00
<i>Panelist:</i> Kate Drummond (Australia)	
<i>Panelist:</i> Nelci Zanon (Brazil)	
<i>Panelist:</i> Chandreshekhar Deopujari (India)	
<i>Panelist:</i> Shlomi Constantini (Israel)	
<i>Panelist:</i> Sarah Olson (Brisbane, Australia)	
<i>Panelist:</i> Andre Grotenhuis (Netherlands)	
<i>Refreshment Break</i>	
13:00 - 13:30	
Refreshment Break	
<i>Speciality Breakaways</i>	
13:30 - 15:00	
Ballroom East	
Research Integrity Symposium & development of working document	
<i>Chair:</i> Anthony Figaji (South Africa)	
Round Table discussion	
13:30 - 15:00	
<i>Panelist:</i> Kee Park (United States)	
<i>Panelist:</i> Tariq Khan (Pakistan)	
<i>Panelist:</i> Nqobile Thango (South Africa)	
<i>Panelist:</i> Ignatius Esene (Cameroon)	
<i>Speciality Breakaways</i>	
14:00 - 16:00	
Auditorium 1	
Sustainability for Global Neurosurgery: Country Case Studies (with the WFNS Young Neurosurgeons)	
<i>Chair:</i> Fatu Conteh (United States)	
<i>Chair:</i> Kehinde Oluwadiya (Sierra Leone)	
Introduction - Faces of Neurosurgery in Sierra Leone	
14:00 - 14:12	
<i>Speaker:</i> Fatu Conteh (United States)	
<i>Speaker:</i> Kehinde Oluwadiya (Sierra Leone)	
From Zero to Hero: Establishing Neurosurgery in Sierra Leone	
14:12 - 14:24	
<i>Speaker:</i> Sonia Spencer (Sierra Leone)	
Surgical service delivery in Sierra Leone	
14:24 - 14:36	
<i>Speaker:</i> Mustapha Kabba (Germany)	
Current status of neurosurgical needs in Sierra Leone	
14:36 - 14:48	
<i>Speaker:</i> Megan Still (United States)	
Mission: BRAIN in Sierra Leone and the Role of NGOs in Neurosurgical Capacity-Building	
14:48 - 15:00	
<i>Speaker:</i> April Sabangan (United States)	
Evolution of Neurosurgery in a Resource-Poor Setting	
15:00 - 15:12	
<i>Speaker:</i> John Jabang (Gambia)	
Developing Neurosurgical Practice in Liberia	
15:12 - 15:24	
<i>Speaker:</i> Alvin Nah Doe (Liberia)	
Sustainability for Global Neurosurgery: NeuroKids	
15:24 - 15:40	
<i>Speaker:</i> Benjamin Warf (United States)	
Africa 100	
15:40 - 15:50	
<i>Speaker:</i> Abderrahmane Sidi Said (Algeria)	
Discussion	
15:50 - 15:55	
Closing remarks	
15:55 - 16:00	

Speaker: Megan Still (United States)

Speciality Breakaways

14:00 - 16:00

Ballroom West

Vascular V- Ischemic Stroke & Carotid Stenosis

Chair: Ekkehard Kasper (Canada)

Chair: Leonidas Quintana (Vina del Mar, Chile)

Chair: Gabor Nagy (Hungary)

Cerebral ischemia surgery

14:00 - 14:12

Speaker: Jiří Fiedler (Czech Republic)

Stroke and thrombectomy - the revolution!

14:12 - 14:24

Speaker: Cristian Mihalea (France)

Malignant MCA occlusion in the era of stroke intervention

14:24 - 14:36

Speaker: Gabor Nagy (Hungary)

Hemicraniectomy in vascular pathology

14:36 - 14:48

Speaker: Ekkehard Kasper (Canada)

Carotid endarterectomy - Decision making and outcomes

14:48 - 15:00

Speaker: Dwarakanath Srinivas (India)

Timing of carotid endarterectomy after i.v. thrombolysis and mechanical thrombectomy

15:00 - 15:12

Speaker: Martin Sames (Czech Republic)

Early brain injury and Cerebral Vasospasm - A new update

15:12 - 15:24

Speaker: Leonidas Quintana (Vina del Mar, Chile)

Carotid endarterectomy: Indications, technique and results

15:24 - 15:36

Speaker: Jaír Raso (Brazil)

Redefining an old problem into Early Brain Injury and Delayed cerebral Ischaemia

15:36 - 15:48

Speaker: Edwin Mogere (Nairobi, Kenya)

Speciality Breakaways

14:00 - 14:50

Auditorium 2

Skull Base: Vestibular Schwannomas

Chair: Marcos Tatagiba (Tübingen, Germany)

Chair: Eduard Zverina (Prague, Czech Republic)

Translabyrinthine approach in vestibular schwannoma surgery

14:00 - 14:07

Speaker: Albert Sufianov (Moscow, Russian Federation)

Role of tumor vascularization as predictive factor for facial preservation

14:07 - 14:14

Speaker: Andrés Cervio (Buenos Aires, Argentina)

Partial resection and stereo-radiosurgery or radical removal for VS

14:14 - 14:21

Speaker: Eduard Zverina (Prague, Czech Republic)

Facial nerve preservation techniques under maximal extent of resection

14:21 - 14:28

Speaker: James K. Liu (United States)

Limits of tumor resection in large and giant VS

14:28 - 14:35

Speaker: Lotfi Boublata (Algeria)

Surgical strategies for VS management (video case presentations)

14:35 - 14:42

Speaker: Roberto Leal (Brazil)

Hearing preservation in medium to large VS	14:42 - 14:49
<i>Speaker:</i> Samy Youssef (United States)	
 <i>Speciality Breakaways</i>	
14:00 - 16:00	R2.6A
Vascular IV - Aneurysms and Bypass Surgery	
<i>Chair:</i> Basant Misra (India)	
<i>Chair:</i> Waleed Abbas (Egypt)	
<i>Chair:</i> Cristian Mihalea (France)	
Need of Microsurgery in Ruptured Aneurysms	14:00 - 14:12
<i>Speaker:</i> Basant Misra (India)	
Ruptured aneurysms - What to do?	14:12 - 14:24
<i>Speaker:</i> Waleed Abbas (Egypt)	
Revascularization of the posterior circulation or revascularization for complex aneurysm repair	14:24 - 14:36
<i>Speaker:</i> Carlos David (United States)	
Multiple stenting in multiple cerebral aneurysms, endovascular and combined treatment	14:36 - 14:48
<i>Speaker:</i> Nicolae Dobrin (Romania)	
Creative bypasses for complex aneurysms	14:48 - 15:00
<i>Speaker:</i> Jacques Morcos (United States)	
Bypass surgery for complex cerebral aneurysms	15:00 - 15:12
<i>Speaker:</i> Miki Fujimura (Japan)	
Transvenous occlusion of brain AVMs	15:12 - 15:24
<i>Speaker:</i> Cristian Mihalea (France)	
Bypass surgery in the management of giant and complex intracranial aneurysms	15:24 - 15:36
<i>Speaker:</i> Yong-Kwang Tu (Taiwan)	
Bypass training	15:36 - 15:48
<i>Speaker:</i> Jiří Fiedler (Czech Republic)	
 <i>Speciality Breakaways</i>	
14:00 - 14:50	R2.6B
Neurotrauma I	
<i>Chair:</i> Aminath Kelani (Niger)	
<i>Chair:</i> Karl Roessler (Vienna, Austria)	
Global Neurosurgery: Fulfilling the Unmet Need Through Productivity Enhancement	14:00 - 14:08
<i>Speaker:</i> Russell Andrews (Los Gatos, United States)	
Management of fractures over Cranial Venous sinuses	14:08 - 14:16
<i>Speaker:</i> Ignatius Esene (Cameroon)	
Missile injuries to the head	14:16 - 14:24
Chiari malformation of formation? the role of intracranial hypotension	14:24 - 14:32
<i>Speaker:</i> Massimiliano Visocchi (Italy)	
Importance of ICP monitoring after decompressive craniectomy	14:32 - 14:40
<i>Speaker:</i> Wellingson Paiva (Brazil)	
To study post operative recurrence rate of Chronic Subdural Hematoma using a new surgical technique called burr hole mini-	14:40 - 14:48

craniotomy*Speaker:* Hemraz Boodhoo (Mauritius)*Speciality Breakaways*

14:00 - 15:36

R2.4A

Neuro-endoscopy: Pituitary adenomas and beyond*Chair:* Chandreshekhar Deopujari (India)*Chair:* Alexander Micko (Austria)**Pituitary adenomas and beyond**

14:00 - 14:00

Endoscopic resection of pituitary tumors

14:00 - 14:12

Speaker: John Jane Jr (United States)**Evaluation and surgical management of Cushing's and/or Acromegaly**

14:12 - 14:24

Speaker: John Jane Jr (United States)**Endonasal endoscopic surgery in younger children**

14:24 - 14:36

Speaker: Chandreshekhar Deopujari (India)**Parasellar extension of pituitary adenomas and the Knosp Classification**

14:36 - 14:48

Speaker: Alexander Micko (Austria)**Parasellar adenomas and compartments. ICA medialisation**

14:48 - 15:00

Speaker: Roman Bosnjak (Slovenia)**Giant pituitary adenomas: A multistage approach**

15:00 - 15:12

Speaker: Stefan Wolfsberger (Austria)**Endoscopic endonasal excision of large and giant pituitary adenomas**

15:12 - 15:24

Speaker: Waleed Azab (Kuwait)**Endoscopic resection of giant pituitary adenomas**

15:24 - 15:36

Speaker: Henry Schroeder (Germany)*Speciality Breakaways*

14:00 - 16:00

R2.4B

Neuro-oncology - Neurophysiology*Chair:* Philippe Schucht (Switzerland)*Chair:* Soichi Oya (Kawagoe, Japan)**Advanced neurophysiology in glioma surgery**

14:00 - 14:20

Speaker: Lorenzo Bello (Italy)**Connectomics in brain tumor surgery**

14:20 - 14:40

Speaker: Michael Ivan (United States)**Continuous dynamic mapping as standalone for motor-eloquent tumors or in combination with awake surgery**

14:40 - 15:00

Speaker: Philippe Schucht (Switzerland)**Continuous dynamic mapping - neurophysiology**

15:00 - 15:15

Speaker: Kathleen Seidel (Switzerland)**The utilization of intraoperative monitoring (MEP, VEP, ABR) in resecting skull base tumors**

15:15 - 15:25

Speaker: Soichi Oya (Kawagoe, Japan)**Treatment of Giant Vestibular Schwannomas**

15:25 - 15:40

Speaker: Lars Poulsgaard (Denmark)

Discussion	15:40 - 15:55
<i>Speciality Breakaways</i> 14:00 - 16:00	R1.4A
Spine: Back Pain and Lumbar Disc Guidelines	
<i>Chair:</i> Joachim Oertel (Germany)	
<i>Chair:</i> Artem Gushcha (Russian Federation)	
<i>Chair:</i> Manuel Soto (Mexico)	
Treatment of Backpain in LMIC	14:00 - 14:10
<i>Speaker:</i> Salia Diarra (Mali)	
Cauda equina syndrome: addressing the controversies	14:10 - 14:20
<i>Speaker:</i> Andreas Demetriades (United Kingdom)	
Back pain after lumbar microdiscectomy: can we help?	14:20 - 14:30
<i>Speaker:</i> Giovanni Grasso (Palermo, Italy)	
Spine committee recommendations	14:30 - 14:30
Acute back pain: Clinical and Radiologic diagnosis	14:30 - 14:40
<i>Speaker:</i> Artem Gushcha (Russian Federation)	
Acute back pain: The Role of Medication, Physical Medicine, and Rehabilitation	14:40 - 14:50
<i>Speaker:</i> Salman Sharif (Pakistan)	
Role of Injection Techniques and Surgery	14:50 - 15:00
<i>Speaker:</i> Nikolay Peev (United Kingdom)	
Discussion	15:00 - 15:10
<i>Speaker:</i> Joachim Oertel (Germany)	
Lumbar disc herniation: Role of conservative therapy and injections	15:10 - 15:20
Lumbar Disc Herniation: Role of surgery	15:20 - 15:30
<i>Speaker:</i> Francesco Costa (Italy)	
Cauda equina syndrome, conus medullaris syndrome and syndromes mimicking sciatic pain	15:30 - 15:40
<i>Speaker:</i> Sandeep Vaishya (India)	
Discussion	15:40 - 15:50
<i>Speciality Breakaways</i> 14:00 - 16:00	R1.4B
Paediatrics	
<i>Chair:</i> James Balogun (Nigeria)	
<i>Chair:</i> Timothée de Saint-Denis (Paris, France)	
Surgery for Pediatric Brachial Plexus Injury	14:00 - 14:15
<i>Speaker:</i> David Adelson (United States)	
Craniopharyngioma and parasellar tumours - the baby and the bathwater	14:15 - 14:30
<i>Speaker:</i> Alistair Jenkins (United Kingdom)	
Outcome measures for paediatric brain tumour assessments	14:30 - 14:45
<i>Speaker:</i> Conor Mallucci (United Kingdom)	
Innovative technology in service of a minimal invasive pediatric neurosurgery	14:45 - 15:00
<i>Speaker:</i> Fahd Derkaoui (Morocco)	

The changing paradigm of the Chiari malformation	15:00 - 15:15
<i>Speaker:</i> Robert Keating (United States)	
Centralization in pediatric brain tumor surgery: Egyptian experience, a state of art African Pediatric Neurosurgical Center	15:15 - 15:30
<i>Speaker:</i> Mohamed El Beltagy (Egypt)	
Challenges of posterior fossa surgery in children	15:30 - 15:45
<i>Speaker:</i> Olufemi Bankole (Nigeria)	
The paradigm shift and the effects in the management of myelomeningocele with fetal surgery according to the Paraguayan experience since 2019	15:45 - 16:00
<i>Speaker:</i> Elio Marin (Paraguay)	
<i>Speciality Breakaways</i> 14:00 - 16:00	R1.6A
Movement disorder seminar	
<i>Chair:</i> Shiro Horisawa (Japan)	
<i>Chair:</i> Harith Akram (United Kingdom)	
History and future in surgery for Psychiatric disorders	14:00 - 14:20
<i>Speaker:</i> Michael Schulder (United States)	
AR in improving training for DBS	14:20 - 14:35
<i>Speaker:</i> Peter Reinacher (Germany)	
Neuromodulation for pain	14:35 - 14:50
<i>Speaker:</i> Konstantin Slavin (United States)	
Lesioning for pain	14:50 - 15:05
<i>Speaker:</i> Ido Strauss (Israel)	
Imaging advances in DBS	15:05 - 15:20
<i>Speaker:</i> Harith Akram (United Kingdom)	
Ablative surgery for dystonia	15:20 - 15:35
<i>Speaker:</i> Shiro Horisawa (Japan)	
DBS in consciousness	15:35 - 15:50
<i>Speaker:</i> Darko Chudy (Zagreb, Croatia)	
Improving accuracy in DBS	15:50 - 16:00
<i>Speaker:</i> Atilla Yilmaz (Turkey)	
<i>Speciality Breakaways</i> 14:50 - 16:00	R2.6B
Neurotrauma II	
<i>Chair:</i> Fahd Derkaoui (Morocco)	
<i>Chair:</i> Hamisi Shabani (Dar es Salaam, Tanzania)	
<i>Chair:</i> Nasser El-Ghandour (Egypt)	
<i>Chair:</i> Bart Depreitere (Belgium)	
Global synergistic actions to improve brain health for future generations	14:50 - 14:58
<i>Speaker:</i> Franco Servadei (Italy)	
Decompressive Craniectomy in Children following TBI	14:58 - 15:06
<i>Speaker:</i> David Adelson (United States)	
Cervical spine injuries in children: Diagnosis and treatment	15:06 - 15:14
<i>Speaker:</i> Abderrahmane Sidi Said (Algeria)	
Outcome Measures in Pediatric TBI	15:14 - 15:22

Speaker: Laura Blackwell (United States)

Protocolization of Isolated Linear Skull Fracture Management

15:22 - 15:30

Speaker: Christopher Bonfield (United States)

Epidemiology of Pediatric traumatic brain injury in Urfa/Turkey (falling from the roof)

15:30 - 15:38

Speaker: Gülyara Çiğdem (Turkey)

Current concepts in Ped TBI

15:38 - 15:46

Speaker: Rick Boop (United States)

Penetrating brain injury in recent war conflict zones in Sudan

15:46 - 15:54

Speaker: Muhab Elmahdi (Sudan)

Speciality Breakaways

15:00 - 15:50

Auditorium 2

Skull Base: Anterior Fossa & Orbital Tumors Controversies

Chair: Kenan Arnautovic (United States)

Anterior Fossa & Orbital Tumors case presentations

15:00 - 15:08

Speaker: Benedicto Colli (Brazil)

Anterior Fossa & Orbital Tumors case presentations

15:08 - 15:16

Anterior Fossa & Orbital Tumors case presentations

15:16 - 15:24

Anterior Fossa & Orbital Tumors case presentations

15:24 - 15:32

Speaker: Okezie Obasi Kanu (Nigeria)

Anterior Fossa & Orbital Tumors case presentations

15:32 - 15:40

Speaker: Jose Landeiro (Brazil)

Anterior Fossa & Orbital Tumors case presentations

15:40 - 15:48

Speaker: Michael Lee (Hong Kong)

Speciality Breakaways

15:36 - 16:00

R2.4A

Neuro-endoscopy: Controversies approaching meningiomas of the anterior skull base

Chair: Waleed Azab (Kuwait)

Controversies approaching meningiomas of the anterior skull base

15:36 - 15:36

The endonasal approach to anterior cranial base meningiomas

15:36 - 15:48

Speaker: Henry Schroeder (Germany)

The transcranial approach to anterior cranial base meningiomas

15:48 - 16:00

Speaker: Stefan Wolfsberger (Austria)

Refreshment Break

16:00 - 16:30

Refreshment Break

Abstract Presentations

16:30 - 18:30

Auditorium 1

VASCULAR IV

Chair: Rohen Harrichandparsad (South Africa)

Chair: Vladimir Benes (Czech Republic)

CERCAS Trial - Carotid Endarterectomy and Repeated Carotid Angioplasty and Stenting for In-Stent Restenosis

16:30 - 16:39

<i>Abstract Presenter:</i> Tomas Hrbac (Ostrava, Czech Republic)		
	SONOLYSIS IN PREVENTION OF BRAIN INFARCTIONS DURING INTERNAL CAROTID ENDARTERECTOMY (SONOBIRDIE). THE RESULTS OF RANDOMIZED CONTROLLED TRIAL	16:39 - 16:48
<i>Abstract Presenter:</i> David Netuka (Czech Republic)		
	Outcomes of mechanical thrombectomy at a single-centre tertiary level public health care hospital in South Africa	16:48 - 16:52
<i>Abstract Presenter:</i> Martin Kiriinya (Cape town, South Africa)		
	Endovascular Mechanical Thrombectomy for Acute Ischaemic Stroke Due to Large Vessel Occlusion: Long-Term Outcomes in a Kenyan Setting	16:52 - 16:56
<i>Abstract Presenter:</i> Edwin Mogere (Nairobi, Kenya)		
	Q+A	16:56 - 17:01
	The Stroke Thrombectomy and Aneurysm Registry (STAR) - An International Consortium for Advancing Management of Cerebrovascular Disease	17:01 - 17:05
<i>Abstract Presenter:</i> Ali Alawieh (United States)		
	Acute carotid thrombendarterectomy - indication, results	17:05 - 17:09
<i>Abstract Presenter:</i> Vladimir Priban (Pilsen, Czech Republic)		
	Emergent microsurgery in acute stroke patients after intravenous thrombolysis and mechanical thrombectomy failures: systematic review	17:09 - 17:13
<i>Abstract Presenter:</i> Jiří Fiedler (Czech Republic)		
	Evaluation of Occluded Distal Vessels with Variable Flip-Angle 3-Dimensional Turbo Spin-Echo Magnetic Resonance Imaging Before Acute Mechanical Thrombectomy	17:13 - 17:17
<i>Abstract Presenter:</i> Masanori Aihara (Maebashi, Japan)		
	The relationship between DWI-positive area volume and ADC levels after mechanical thrombectomy in patients with Low DWI ASPECTS	17:17 - 17:21
<i>Abstract Presenter:</i> Ryosuke Shintoku (Japan)		
	Video-based measurement of tissue acceleration as a novel metric for surgical performance during carotid endarterectomy	17:21 - 17:25
<i>Abstract Presenter:</i> Taku Sugiyama (Sapporo, Japan)		
	Q+A	17:25 - 17:35
	A new very-small-bore Simmons guiding sheath for transradial neurointervention: An initial experience	17:35 - 17:39
<i>Abstract Presenter:</i> Daishiro Abe (Matsumoto, Japan)		
	Traditional and Novel Stroke Risk Factors in an Indigenous Population of Native Americans in the U.S.A	17:39 - 17:43
<i>Abstract Presenter:</i> Robert Dempsey (Madison, United States)		
	"Instant 3D" angiography: generating 3D anaglyph videos from 2D rotational angiograms	17:43 - 17:47
<i>Abstract Presenter:</i> Alick P Wang (London, United Kingdom)		
	Q+A	17:47 - 17:52
	Morphological changes in the brain in patients with COVID-19 and clinical manifestations of cerebrovascular accident	17:52 - 17:56
<i>Abstract Presenter:</i> Anna Shmeleva (Kyiv, Ukraine)		
	Intraoperative Flowmetry in Asymptomatic Middle Cerebral Aneurysm Surgery - Prospective Study	17:56 - 18:00

Abstract Presenter: Vladimir Priban (Pilsen, Czech Republic)

Additional artery territory infarction in malignant middle cerebral artery stroke does not worsen the prognostic of patients undergoing decompressive hemicraniectomy 18:00 - 18:04

Abstract Presenter: Pedro Tadao Hamamoto Filho (Botucatu, Brazil)

The effect of EC-IC bypass on intelligence and cognitive function in patients with chronic cerebrovascular ischemia 18:04 - 18:13

Abstract Presenter: Taichi Ishiguro (Yachiyo, Japan)

Q+A 18:13 - 18:23

Abstract Presentations

16:30 - 18:30

Ballroom West

SPINE V

Chair: Sean Tromp (South Africa)

Chair: Joachim Oertel (Germany)

Patient Selection and Outcomes of Standalone Lateral Interbody Fusion: Our Experience and a Systematic Review 16:30 - 16:39

Abstract Presenter: Nitesh Naranbhai (South Africa)

Clinical and Radiological Outcomes of Oblique Lateral Lumbar Interbody Fusion (OLLIF) 16:39 - 16:43

Abstract Presenter: Hamid Abbasi (Germany)

Neurologic complications and risk factors for motor weakness following oblique lumbar interbody fusion 16:43 - 16:47

Abstract Presenter: Eleftherios Archavlis (Frankfurt, Germany)

Effect of Body Mass Index on Perioperative Outcomes in Minimally Invasive OLLIF Fusion versus Open Fusions: A Multivariant Analysis 16:47 - 16:51

Abstract Presenter: Hamid Abbasi (Germany)

Economic Performance of Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a focus on Hospital throughput efficiency 16:51 - 16:55

Abstract Presenter: Hamid Abbasi (Germany)

Q+A 16:55 - 17:03

Comparison between 3D-printed titanium and polyetheretherketone cages: 1-year outcome after minimally invasive transforaminal interbody fusion 17:03 - 17:07

Abstract Presenter: Jeong-Yoon Park (Seoul, Korea, Republic of)

Comparative analysis of Posterior Lumbar Interbody Fusion and Repeat Discectomy for the management of Recurrent Lumbar Disc Herniation 17:07 - 17:11

Abstract Presenter: Gerald Musa (Russian Federation)

Comparative Study on Long-Term Outcomes of Conventional Open Versus Minimally Invasive Posterior Interbody Fusion Surgery: A Meta-Analysis 17:11 - 17:15

Abstract Presenter: Hantz Filbert Siy (Manila, Philippines)

Vertebral Bone Quality Score as a Predictor of Adjacent Segment Disease in Lumbar Interbody Fusion Surgery 17:15 - 17:19

Abstract Presenter: Mohamed Soliman (Egypt)

Q+A 17:19 - 17:24

Spinal Epidural Hypertension as a Determining Factor in the Disability of Patients with Lumbar Spinal Stenosis: 1-Year Follow Up Period 17:24 - 17:28

Abstract Presenter: Andres Vargas Jimenez (Madrid, Spain)

Surgical site infection prevention following instrumented spine surgery: Comparison of intraoperative wound irrigation with saline containing gentamicin and dilute povidone-iodine 17:28 - 17:32

Abstract Presenter: Moses Osaodion Inojie (Asaba, Nigeria)

Outpatient Spine Surgery: Clinical Effectiveness, safety and complication rates in Polish Ambulatory Center 17:32 - 17:36

Abstract Presenter: Kajetan Latka (Opole, Poland)

Increasing incidence of spondylodiscitis in England: An analysis of the national health service (NHS) hospital episode statistics from 2012 to 2021 17:36 - 17:40

Abstract Presenter: Santhosh G. Thavarajasingam (Cambridge, United Kingdom)

Q+A 17:40 - 17:45

From Pain to Pleasure: A Case Series on Surgical Management of Debilitating Sacral CSF Cysts in Women 17:45 - 17:49

Abstract Presenter: Rachel Vaughan (Halifax, Canada)

Five-year outcomes following transforaminal endoscopic foraminotomy and discectomy for soft and calcified thoracic disc herniations 17:49 - 17:53

Abstract Presenter: Robert Saftic (Zagreb, Croatia)

Inhibition of Mir-199a Alleviates Intervertebral Disc Degeneration by Regulating the Peroxisome Proliferator-Activated Receptor γ /Nuclear Factor-KappaB Pathway 17:53 - 17:57

Abstract Presenter: Fariborz Ghaffarpasand (Shiraz, Iran)

Peri radicular infiltration as a minimal invasivetherapy of back pain in 2.280 cases 17:57 - 18:01

Abstract Presenter: Daniel De Carvalho Kirchhoff (São Bernardo do Campo, Brazil)

Neurosurgery out of its borders: Inclusive practice of neurosurgery in an orthopedic pediatric team 18:01 - 18:05

Abstract Presenter: Timothée de Saint-Denis (Paris, France)

Simplifying Complex spine Surgery with 'Anjali Technique': A fully manual operative technique for achieving Robotic Spinal Fixation precision 18:05 - 18:09

Speaker: AVINASH HARIDAS (CHERTHALA, India)

Risk factors for unfavorable outcomes in the surgical treatment of non-specific spondylitis and spondylodiscitis 18:09 - 18:13

Abstract Presenter: Anna Siluianova (Moscow, Russian Federation)

Q+A 18:13 - 18:18

Abstract Presentations
16:30 - 18:30

Auditorium 2

NEUROTRAUMA III

Chair: Edwin Mogere (Nairobi, Kenya)

Chair: Antonio Belli (United Kingdom)

Trends in Traumatic Brain Injury in a Low- and middle-Income Country Apex Trauma-Care Center: Current Challenges & Plausible Solutions 16:30 - 16:39

Abstract Presenter: Karthigeyan Madhivanan (Chandigarh, India)

Coagulopathy in Moderate and Severe Traumatic Brain Injury; A prospective study in a trauma centre of a developing country 16:39 - 16:43

Abstract Presenter: Afeez Aruna (Zaria, Nigeria)

Role of D-Dimer in Structural Disorder in Mild Traumatic Brain Injury	16:43 - 16:47
<i>Abstract Presenter:</i> Subir Dey (Pune, Maharashtra, India)	
MAST Trials - Strengthening the evidence behind the use of antiepileptic drugs in TBI patients	16:47 - 16:51
<i>Abstract Presenter:</i> Edoardo Viaroli (Cambridge, United Kingdom)	
Q+A	16:51 - 16:56
Prognostic factors on clinical outcome in patients with epidural hematoma - a systematic analysis in a large patient cohort	16:56 - 17:00
<i>Abstract Presenter:</i> Petra Andreea Mercea (Salzburg, Austria)	
Characteristics of patients who developed acute subdural hematoma while taking antithrombin agents and were treated with reversal agents	17:00 - 17:04
<i>Abstract Presenter:</i> Eiichi Suehiro (Narita, Japan)	
Predictors of Recurrence among Adult Filipinos after Chronic Subdural Hematoma Surgery: Developing a Preliminary Model for Prognosis	17:04 - 17:08
<i>Abstract Presenter:</i> Charlene Mary Mercado (Manila, Philippines)	
Models to predict expansive intracranial hematomas occurrence for adult traumatic brain injury patients in Uganda	17:08 - 17:12
<i>Abstract Presenter:</i> LARREY KAMABU (Kampala, Uganda)	
Traumatic Bifrontal Contusions: A review of the optimal treatment strategies	17:12 - 17:16
<i>Abstract Presenter:</i> Kuzolunga Xulu (Durban, South Africa)	
Endoscopic assisted evacuation of extradural haematoma	17:16 - 17:20
<i>Abstract Presenter:</i> Tauri Clive Gororo (Cape Town, South Africa)	
Q+A	17:20 - 17:27
Low Velocity Civilian Gunshot Wounds to the Cranio-Cervical Junction	17:27 - 17:31
<i>Abstract Presenter:</i> Elsje-Marie Geldenhuys (Cape Town, South Africa)	
Outcome following penetrating traumatic brain injury in elderly patients	17:31 - 17:35
<i>Abstract Presenter:</i> Muziwakhe Khumalo (South Africa)	
How to pull out a Knife: A South African Neurosurgical Trainees exposure to Non Missile Penetrating Head Injuries (NMPHI)	17:35 - 17:39
<i>Abstract Presenter:</i> Ashvir Rajkumar (Johannesburg, South Africa)	
Q+A	17:39 - 17:43
TRAUMATIC BRAIN INJURY IN THE ELDERLY POPULATION: A 20-YEAR EXPERIENCE IN A SINGLE NEUROSURGERY CENTRE IN KWAZULU NATAL	17:43 - 17:47
<i>Abstract Presenter:</i> Octevia Mtetwa (Durban, South Africa)	
Outcome of decompressive craniectomy following traumatic brain injury in a select South African population	17:47 - 17:51
<i>Abstract Presenter:</i> Amir Kumar Singh (South Africa)	
Emergency decompressive surgery in patients with brain herniation and pupillary abnormalities: Importance of improved pupillary response after osmotherapy and surgery	17:51 - 17:55
<i>Abstract Presenter:</i> Sahar Sorek (United States)	
Are Bilaterally Fixed and Dilated Pupils the Kiss of Death in	17:55 - 17:59

Patients with Transtentorial Herniation? Systematic Review and Pooled Analysis		
<i>Abstract Presenter:</i> Sahar Sorek (United States)		
	Is dural closure necessary in post traumatic decompressive craniectomy ? - A randomized study	17:59 - 18:03
<i>Abstract Presenter:</i> Chhitij Srivastava (lucknow, India)		
	Predictors of post-operative hydrocephalus and subdural hygroma following decompressive craniectomy and its treatment modalities. Literature review and our experience	18:03 - 18:07
<i>Abstract Presenter:</i> Chandra Prakash Yadav (BIRATNAGAR, Nepal)		
	Q+A	18:07 - 18:14
<i>Abstract Presentations</i>		
16:30 - 18:30		R2.6A
NEUROTRAUMA IV / ENDOSCOPY		
<i>Chair:</i> Emmanuel Wegoye (Uganda)		
<i>Chair:</i> Erastus Kiratu (South Africa)		
	100 CASES OF CISTERNOSTOMY PERFORMED AT A PERIPHERAL TERTIARY CARE CENTRE UNDER LIMITED RESOURCES	16:30 - 16:34
<i>Abstract Presenter:</i> SURATH SANJAYA KUMARA MUNASINGHE ARACHCHIGE (RATNAPURA, Sri Lanka)		
	Traumatic brain Injury and skull fractures in Mozambique	16:34 - 16:38
<i>Abstract Presenter:</i> Mircy Maocha (Maputo, Mozambique)		
	The Best Care Always Bundle for the prevention of Ventilator Associated Pneumonia in patients with Severe Traumatic Brain Injury	16:38 - 16:42
<i>Abstract Presenter:</i> Stefan Kruger (Cape Town, South Africa)		
	Q+A	16:42 - 16:47
	Impact of COVID19 pandemic on a cohort of traumatic brain injury patients in the Amazon	16:47 - 16:51
<i>Abstract Presenter:</i> Robson Amorim (Manaus, Brazil)		
	Management of Neurotrauma in limited human and Economic Resources conditions	16:51 - 16:55
<i>Abstract Presenter:</i> Geldon Fejzo (Albania)		
	Prognostigation of Traumatic Brain Injury using International Mission for Prognosis and Analysis of Clinical Trials Score in Nepalese Cohort	16:55 - 16:59
<i>Abstract Presenter:</i> Prabhat Jha (KATHMANDU, Nepal)		
	Neurotrauma from fall accidents in Ethiopia	16:59 - 17:03
<i>Abstract Presenter:</i> Tsegazeab Laeke (Addis Ababa, Ethiopia)		
	Incidence and Clinical Outcomes of Post Traumatic Hydrocephalus in a Single Centre in KwaZulu Natal Over One Year	17:03 - 17:07
<i>Abstract Presenter:</i> Fezeka Nkwanyana (Durban, South Africa)		
	Q+A	17:07 - 17:12
	The profile of children with severe traumatic brain injury at Red Cross War Memorial Children's Hospital, Cape Town	17:12 - 17:16
<i>Abstract Presenter:</i> Kriste Alberts (Cape Town, South Africa)		
	INVESTIGATION OF THE EFFICACY OF BEVACIZUMAB TREATMENT IN AN EXPERIMENTAL RAT MODEL OF CHRONIC SUBDURAL HEMATOMA	17:16 - 17:20
<i>Abstract Presenter:</i> Sinan Sağıroğlu (Aydın, Turkey)		

Early and late decompressive craniectomies versus standard medical management in traumatic brain injury patients with refractory intracranial hypertension: meta-analysis study	17:20 - 17:24
<i>Abstract Presenter:</i> Katarzyna Julia Minta (United Kingdom)	
INDIGENOUS ICP MONITORING SYSTEM , SYRINGE NEURO-PORT & CRANIOMAPER : OUR EXPERIENCE IN RESOURCE CONSTRAINT SETTINGS	17:24 - 17:28
<i>Abstract Presenter:</i> SHAMEEM AHMED (Guwahati, India)	
Q+A	17:28 - 17:33
Extra Axial Endoscopic Third Ventriculostomy	17:33 - 17:37
<i>Abstract Presenter:</i> Sanjeev Kumar (Raipur, India)	
Reliability and effectiveness of the dry-field maneuver used for bleeding control in neuroendoscopic procedures in long-term follow-up	17:37 - 17:41
<i>Abstract Presenter:</i> Elif Ezgi Cenberlitas (Turkey)	
Application of the Shuntscope in selected cases of adult hydrocephalus: Experience of 63 Procedures	17:41 - 17:45
<i>Abstract Presenter:</i> Anna Prajsnar-Borak (Homburg, Germany)	
ENDOSCOPIC FINDINGS AND CLINICAL OUTCOME OF 'ETV' IN INFANTS UNDER SIX MONTHS IN TANZANIA.	17:45 - 17:49
<i>Abstract Presenter:</i> Consolata Shayo (Dar es salaam, Tanzania)	
Endoscopic Transaqueductal Stenting: Indications, Surgical Technique, and Results	17:49 - 17:53
<i>Abstract Presenter:</i> Anna Prajsnar-Borak (Homburg, Germany)	
THE FLEXIBLE NEUROENDOSCOPE: VERSATILITY IN HYDROCEPHALUS AND ARACHNOID CYSTS WITH VIDEO PRESENTATIONS	17:53 - 17:57
<i>Abstract Presenter:</i> Nilesh Mohan (Eldoret, Kenya)	
High-Definition 4K 3D Exoscope in spine surgery: a single center experience with 102 cases	17:57 - 18:01
<i>Abstract Presenter:</i> Niccolò Innocenti (Milan, Italy)	
Q+A	18:01 - 18:05
<i>Abstract Presentations</i> 16:30 - 18:30	R2.6B
SKULL BASE III	
<i>Chair:</i> David Roytowski (South Africa)	
<i>Chair:</i> Lars Poulsgaard (Denmark)	
Advanced Intraoperative Monitoring for Posterior Skull Base Neurosurgery	16:30 - 16:34
<i>Abstract Presenter:</i> Michael W Y Lee (Hong Kong, Hong Kong)	
The risk of intraoperative venous air embolism during neurosurgery in lounging (semi-sitting) position re-visited: Single center study with 1,000 cases	16:34 - 16:38
<i>Abstract Presenter:</i> Marcos Tatagiba (Tübingen, Germany)	
Venous thromboembolism chemoprophylaxis after Skull Base surgery	16:38 - 16:42
<i>Abstract Presenter:</i> Evangelos Drosos (United Kingdom)	
Quality of Life in Patients with Skull Base Meningiomas Treated with Microsurgery: A Prospective Observational Study	16:42 - 16:46
<i>Abstract Presenter:</i> Reema Pradhan (Mumbai, India)	

CHALLENGES IN MANAGEMENT OF SKULL BASE MENINGIOMA IN SUB-SAHARAN AFRICA- A SINGLE CENTRE EXPERIENCE	16:46 - 16:50
<i>Abstract Presenter:</i> Francis Campbell (Enugu, Nigeria)	
Q+A	16:50 - 16:55
Brain retractor can be safely and effectively used by opening the horizontal fissure for resection of cerebellar pontine angle tumors	16:55 - 16:59
<i>Abstract Presenter:</i> Soichi Oya (Kawagoe, Japan)	
Atlantoaxial fixation- Is this the answer to Chiari dilemma?	16:59 - 17:03
<i>Abstract Presenter:</i> Atul Goel (Mumbai, India)	
Endoscope-Assisted Surgical Approach to Posterolateral Foramen Magnum, Cadaveric Study	17:03 - 17:07
<i>Abstract Presenter:</i> Ege Coskun (Sivas, Turkey)	
Q+A	17:07 - 17:12
A novel scoring system to determine the proper surgical approach in petroclival meningiomas	17:12 - 17:16
<i>Abstract Presenter:</i> Guive Sharifi (Iran)	
keyhole endoscopic assisted microsurgery paramedian supra-cerebellar infratentorial approach for resection of pineal region tumors	17:16 - 17:20
<i>Abstract Presenter:</i> Ali Ayyad (doha, Qatar)	
An analysis of 293 cases of Skull Base Aspergillosis over 22 years	17:20 - 17:24
<i>Abstract Presenter:</i> SANDEEP MOHINDRA (Chandigarh, India)	
Reconstruction of Skull Base in Craniofacial Clefts surgeries, Our experience in 31 patients with craniofacial cleft	17:24 - 17:28
<i>Abstract Presenter:</i> Hesam Ghadirian (Iran)	
Number-needed-to-treat/Number-needed-to-harm as a new perspective on risk-benefit-ratio comparing gamma-knife-radiosurgery with microsurgery as a monotherapy in large vestibular schwannomas(Koos III-IV)	17:28 - 17:32
<i>Abstract Presenter:</i> Sophie Shih-Yüing Wang (Tübingen, Germany)	
Sex-related differences in patients characteristics, and treatment outcome in a comparative study of microsurgery and radiosurgery of vestibular schwannoma	17:32 - 17:36
<i>Abstract Presenter:</i> Sophie Shih-Yüing Wang (Tübingen, Germany)	
Q+A	17:36 - 17:41
Changing concepts in the operative management of petroclival meningioma: Reverting back to retrosigmoid approach	17:41 - 17:45
<i>Abstract Presenter:</i> Suresh Nair Narayanan Nair (Trivandrum, India)	
Microsurgical anatomy of the fiber tracts of the brainstem step by step during dissection	17:45 - 17:49
<i>Abstract Presenter:</i> Erik Burgos-Sosa (Mexico, Mexico)	
Generation and Applications of Synthetic Computed Tomography Images for Neurosurgical Planning	17:49 - 17:53
<i>Abstract Presenter:</i> Shun Yao (China)	
Keyhole Approaches to Meningioma Surgery: Case Series	17:53 - 17:57
<i>Abstract Presenter:</i> Christos Profyris (Johannesburg, South Africa)	
A New Area of Neurosurgery: Robotic Neurosurgery First Clinical Series	17:57 - 18:01
<i>Speaker:</i> Murat Zaimoglu (Turkey)	

Q+A	18:01 - 18:06
<i>Abstract Presentations</i>	
16:30 - 18:30	R2.4A
PAEDIATRIC NEUROSURGERY III/ HYDROCEPHALUS	
<i>Chair: Ngobile Thango (South Africa)</i>	
<i>Chair: Alistair Jenkins (United Kingdom)</i>	
<i>Chair: Eylem Öcal (United States)</i>	
The Aetiological Distribution of Paediatric Hydrocephalus in Asia: a Systematic Review and Meta-analysis	16:30 - 16:34
<i>Abstract Presenter: Soham Bandyopadhyay (United Kingdom)</i>	
Efficacy of Endoscopic Third Ventriculostomy (ETV) in the management of shunt failure and its predictive factors.	16:34 - 16:38
<i>Abstract Presenter: Alice Noris (Italy)</i>	
Paediatric hydrocephalus in KwaZulu-Natal, South Africa: Lessons learnt in the 21st Century	16:38 - 16:42
<i>Abstract Presenter: Basil Enicker (Durban, South Africa)</i>	
Optic nerve sheath diameter distension in normal pressure hydrocephalus: a potential marker for shunt responsiveness	16:42 - 16:46
<i>Abstract Presenter: Gerda Reischer (United Kingdom)</i>	
Q+A	16:46 - 16:51
Quality of life outcome in patients with idiopathic normal pressure hydrocephalus: a 11-year follow-up study	16:51 - 16:55
<i>Abstract Presenter: Giovanni Grasso (Palermo, Italy)</i>	
Evaluating the incidence and risk factors for ventriculoperitoneal shunt sepsis at Dr George Mukhari Academic hospital in Pretoria	16:55 - 16:59
<i>Abstract Presenter: Andries Pretorius (Pretoria, South Africa)</i>	
Ventriculoperitoneal shunt failures at Red Cross War Memorial Children's Hospital	16:59 - 17:03
<i>Abstract Presenter: Jed Lazarus (Cape Town, South Africa)</i>	
Analysis of Non-ventriculoperitoneal Shunts at Red Cross War Memorial Children's Hospital	17:03 - 17:07
<i>Abstract Presenter: Byron De John (Cape Town, South Africa)</i>	
Ventriculoperitoneal Shunt - The Workhorse of CSF Surgery	17:07 - 17:11
<i>Abstract Presenter: Yihui Cheng (Glasgow, United Kingdom)</i>	
Q+A	17:11 - 17:16
Subduroperitoneal drainage without a valve - an effective solution for chronic subdural collections in children	17:16 - 17:20
<i>Abstract Presenter: Petr Vacek (Plzen, Czech Republic)</i>	
ShuntScope Guidance in Pediatric Hydrocephalus: Indications, Surgical Technique, and Results	17:20 - 17:24
<i>Abstract Presenter: Anna Prajsnar-Borak (Homburg, Germany)</i>	
Correlation Analysis of Ventricular Anatomical Variants during ETV and CPC Procedures in Hydrocephalus Patients post Myelomeningocele Repair using FIESTA-C/CISS MRI	17:24 - 17:28
<i>Abstract Presenter: Mohamed Badran (Mansoura, Egypt)</i>	
Outcomes of endoscopic third ventriculostomy with or without choroid plexus cauterization in pediatric hydrocephalus management in Africa: a systematic review	17:28 - 17:32
<i>Abstract Presenter: LARREY KAMABU (Kampala, Uganda)</i>	

Comparison Of ETV and VP Shunt In management of hydrocephalus associated with Tubercular Meningitis - Study Of 303 Pediatric Patients	17:32 - 17:36
<i>Abstract Presenter:</i> BAL KRISHNA OJHA (Lucknow, Uttar Pradesh, India)	
Q+A	17:36 - 17:41
Smartphone-based thermography to determine shunt patency in patients with hydrocephalus	17:41 - 17:45
<i>Abstract Presenter:</i> Biswadji S. Harhangi (Rotterdam, Netherlands)	
Sexual dimorphism in a rat model of hydrocephalus induced by extraparenchymal neurocysticercosis	17:45 - 17:49
<i>Abstract Presenter:</i> Pedro Tadao Hamamoto Filho (Botucatu, Brazil)	
Incidence and outcomes of ventriculoperitoneal shunt-treated chronic secondary hydrocephalus at a tertiary UK neurosurgical centre: a 4-year retrospective observational study	17:49 - 17:53
<i>Abstract Presenter:</i> Sheikh MuktaDir Bin Momin (Birmingham, United Kingdom)	
Redesigning ventriculoperitoneal (VP) shunt valve: A novel biomedical initiative and perspective	17:53 - 17:57
<i>Abstract Presenter:</i> Chandrasekaran Kaliaperumal (Edinburgh, United Kingdom)	
Q+A	17:57 - 18:02
Proximal Ventricular Catheter Placement in Ventriculoperitoneal Shunt Operations in adults: comparison of anterior vs parietal-occipital point in ventricular catheter malfunction	18:02 - 18:06
<i>Abstract Presenter:</i> Ivica Kocevski (Skopje, North Macedonia)	
Do CSF proteins levels affect Ventriculoperitoneal Shunt survival in Hydrocephalus?	18:06 - 18:10
<i>Abstract Presenter:</i> Benjamin Mutiso (Kenya)	
Does ventriculomegaly correlate with intelligence and cognition? Neuropsychological findings and profile in longstanding overt ventriculomegaly of adults (LOVA)	18:10 - 18:14
<i>Abstract Presenter:</i> Lucia Darie (London, United Kingdom)	
The effect of double dose vs extended prophylactic antibiotics on external ventricular drain-related infection in National hospital, Abuja	18:14 - 18:18
<i>Abstract Presenter:</i> Muhammad Mansur Idris (Nigeria)	
Q+A	18:18 - 18:21
<i>Abstract Presentations</i> 16:30 - 18:30	R2.4B
FUNCTIONAL - MOVEMENT DISORDERS	
<i>Chair:</i> Michael Schulder (United States)	
<i>Chair:</i> Sarah Olson (Brisbane, Australia)	
<i>Chair:</i> Patrick Mertens (France)	
Development of a Stereotactic Radiosurgery Frame Adapter for a Multichannel MRI Coil	16:30 - 16:34
<i>Abstract Presenter:</i> hyung mo goo (Daegu, Korea, Republic of)	
Comparison of Directional Leads vs Omni Directional Leads in Bilateral Subthalamic Nucleus (STN) Deep Brain Stimulation (DBS)	16:34 - 16:38
<i>Abstract Presenter:</i> Zubair Mustafa Khan (Lahore, Pakistan)	
GLOBUS PALLIDUS INTERNUS OR SUBTHALAMIC NUCLEUS DBS FOR DYSTONIA	16:38 - 16:42
<i>Abstract Presenter:</i> Akurati Sri Venkata Sasank (Hyderabad, India)	

Prospective data collection of patients using remote programming NeuroSphere™ Virtual Clinic and retrospective data collection of previously outpatient programmed patients	16:42 - 16:46
<i>Abstract Presenter:</i> Jan Vesper (Duesseldorf, Germany)	
Q+A	16:46 - 16:51
Comparison of the Outcome of Deep Brain Stimulator Surgeries in Parkinson's Disease of Frame Based and Frameless Stereotactic Systems	16:51 - 16:55
<i>Abstract Presenter:</i> David Kis (Szeged, Hungary)	
DEEP BRAIN STIMULATION OF ANTEROMEDIAL SUBTHALAMIC NUCLEUS FOR OBSESSIVE-COMPULSIVEDISORDER: PRELIMINARY RESULTS FROM AN OPEN-LABEL STUDY	16:55 - 16:59
<i>Abstract Presenter:</i> Dwarakanath Srinivas (India)	
Directly identifying and precisely lesioning the cerebellothalamic tract at the thalamic base for tremors : a prospective open-label study	16:59 - 17:03
<i>Abstract Presenter:</i> Ming-Rui Zhou (Kun Ming, China)	
Defining the Location of Stimulation Hot Spot of the Motor Subthalamic Nucleus in Akinetic and Tremor Dominant Parkinson's Disease	17:03 - 17:07
<i>Abstract Presenter:</i> David Kis (Szeged, Hungary)	
Experience in Application of Local Field Potential and Connectome in DBS Surgery in Hong Kong	17:07 - 17:11
<i>Abstract Presenter:</i> Tak Lap Poon (Hong Kong, Hong Kong)	
Q+A	17:11 - 17:16
Decreased hemispheric volume may be associated with occurrence of peri-lead edema in Parkinson disease patients with Deep Brain Stimulation	17:16 - 17:20
<i>Abstract Presenter:</i> Marina Raguz (Zagreb, Croatia)	
First experiences with DBS IPG replacement using a hybrid system	17:20 - 17:24
<i>Abstract Presenter:</i> Jan Vesper (Duesseldorf, Germany)	
The death of ablative surgery	17:24 - 17:28
<i>Abstract Presenter:</i> Sarah Olson (brisbane, Australia)	
Stepwise dual targets lesioning in a single procedure for the tremor and akinesia in mixed-type parkinson's disease	17:28 - 17:32
<i>Abstract Presenter:</i> Ming-Rui Zhou (Kun Ming, China)	
Q+A	17:32 - 17:37
<i>Abstract Presentations</i> 16:30 - 18:30	R1.4A
NEURO-ONCOLOGY	
<i>Chair:</i> Teddy Totimeh (Ghana)	
<i>Chair:</i> Albert Sufianov (Moscow, Russian Federation)	
<i>Chair:</i> Konstantina Karabatsou (United Kingdom)	
NFKBIA haploinsufficiency reshapes the epigenome and influences outcome in diffuse gliomas	16:30 - 16:39
<i>Abstract Presenter:</i> Griffith Harsh (Sacramento, United States)	
Long-term Survival from Breast Cancer Brain Metastases in the Era of Modern Systemic Therapies	16:39 - 16:43
<i>Abstract Presenter:</i> Elad Mashlach (New York, United States)	

Defining Progressive Disease in Laser Ablated Brain Metastasis: An Evidence-Based Pursuit	16:43 - 16:47
<i>Abstract Presenter:</i> Martin Merenzon (Miami, United States)	
Q+A	16:47 - 16:50
Outcome assessment of intraoperative radiotherapy for brain metastases: results of a prospective observational study with comparative matched-pair analysis	16:50 - 16:54
<i>Abstract Presenter:</i> Matthias Schneider (Bonn, Germany)	
Developing a novel prognosis prediction system for surgically treated spine metastases patients based on network-science and correlation analysis	16:54 - 16:58
<i>Abstract Presenter:</i> Péter Banczerowski (Budapest, Hungary)	
NYUMets-Brain: A Massive Metastatic Brain Cancer Dataset for Global Use	16:58 - 17:02
<i>Abstract Presenter:</i> Zane Schnurman (New York, United States)	
Survival Analysis of Patients with Urothelial Cancer Brain Metastases Based on Treatment Modality	17:02 - 17:06
<i>Abstract Presenter:</i> Jinpyo Hong (United States)	
Q+A	17:06 - 17:11
Intraoperative Radiotherapy combined with Spinal Stabilization Surgery. A Novel Treatment Strategy for Spinal Metastases. First Experiences at a Single Center	17:11 - 17:15
<i>Abstract Presenter:</i> Ehab Shiban (Augsburg, Germany)	
MR-Guided Focused Ultrasound Induced Blood-Brain-Barrier Opening for Brain Metastasis	17:15 - 17:19
<i>Abstract Presenter:</i> Giovanni Grasso (Palermo, Italy)	
Intraoperative Radiotherapy in Brain Metastasis Surgery results in less Radionecrosis with equal Oncologic Outcome	17:19 - 17:23
<i>Abstract Presenter:</i> Ehab Shiban (Augsburg, Germany)	
Stereotactic Radiosurgery for Non-Small Cell Lung Cancer Brain Metastases Before and After the Targeted Therapy Era	17:23 - 17:27
<i>Abstract Presenter:</i> Randy Jensen (Salt Lake City, United States)	
Q+A	17:27 - 17:31
Enhancing Patient Selection for Same Day Discharge following Craniotomy for Brain Tumor Resection: a Prognostic Scoring System	17:31 - 17:35
<i>Abstract Presenter:</i> Martin Merenzon (Miami, United States)	
Is Microscopic Trans-Sphenoidal surgery History?	17:35 - 17:39
<i>Abstract Presenter:</i> LAXMINARAYAN TRIPATHY (Kolkata, India)	
Q+A	17:39 - 17:44
Enhancing the Pre-operative Prediction of Supralesional Ablation in Laser Interstitial Thermal Therapy (LITT) for Brain Tumors using Machine Learning	17:44 - 17:48
<i>Abstract Presenter:</i> Martin Merenzon (Miami, United States)	
From Novices to Experts: Our Learning Curve and clinical outcomes with 250 Laser Ablations for Brain Tumors	17:48 - 17:52
<i>Abstract Presenter:</i> Martin Merenzon (Miami, United States)	
Q+A	17:52 - 17:54

SURGICAL OUTCOME OF MEDULLOBLASTOMA IN ETHIOPIA	17:54 - 17:58
<i>Abstract Presenter:</i> Yemisirach Bizuneh Akililu (Addis Ababa, Ethiopia)	
Free-hand Frameless Electromagnetic-Navigation (AXIEM™)-Guided Brain Lesion Biopsies: An Institution Based Experience from a Low-Middle-Income Country	17:58 - 18:02
<i>Abstract Presenter:</i> Muhammad Aqeel Natt (Lahore, Pakistan)	
Brain tumor Programs in Asia and Africa: Current status, challenges, and future perspectives	18:02 - 18:06
<i>Abstract Presenter:</i> Beverly Cheserem (Kenya)	
Q+A	18:06 - 18:10
<i>Abstract Presentations</i> 16:30 - 18:30	R1.4B
GLOBAL NEUROSURGERY III/ GENERAL	
<i>Chair:</i> Kazadi Kalungu (Zimbabwe)	
<i>Chair:</i> Ndyebo Mabovula (Durban, South Africa)	
FEASIBILITY AND ACCEPTABILITY STUDY OF DOUBLE FORTIFIED SALT WITH IODINE AND FOLIC ACID: PILOT CLINICAL STUDY	16:30 - 16:39
<i>Abstract Presenter:</i> Anastasia Arynchyna-Smith (Birmingham, United States)	
Prioritizing nursing engagement in the development of global neurosurgery	16:39 - 16:48
<i>Abstract Presenter:</i> Rebecca Silvers (San Francisco, United States)	
The gravity-assisted posterior interhemispheric transfalciine transprecuneus approach (PITTA): visual field results and postoperative T2W1/FLAIR changes analysis	16:48 - 16:52
<i>Abstract Presenter:</i> Jan Klener (Praha 5, Czech Republic)	
Q+A	16:52 - 16:57
Can arcuate foramen variation of the atlas be an etiopathogenetic factor for a non-aneurysmal peri mesencephalic subarachnoid hemorrhage?	16:57 - 17:01
<i>Abstract Presenter:</i> Nese Keser (Istanbul, Turkey)	
A Retrospective Cohort Study of Minimally Invasive Spine Surgery in Nigeria	17:01 - 17:05
<i>Abstract Presenter:</i> Oluwafemi Owagbemi (Victoria Island, Lagos, Nigeria)	
Evaluation of Serial Serum S100β Protein in Identification, Progression, and Outcome Evaluation in Patients with Intra Cerebral Hemorrhage.	17:05 - 17:09
<i>Abstract Presenter:</i> Anirudha Doshi (Mumbai, India)	
Spontaneous intracerebral hemorrhage: Clinical Profile and Natural history in a sub-Saharan country - A prospective and multicentric study	17:09 - 17:13
<i>Abstract Presenter:</i> Adilson J. M. de Oliveira (Luanda, Angola)	
Minimally Invasive Transforaminal Lumbar Interbody Fusion in Nigeria—A Direct Cost, Perioperative Parameter, and Complication Rate Analysis	17:13 - 17:17
<i>Abstract Presenter:</i> Oluwafemi Owagbemi (Victoria Island, Lagos, Nigeria)	
Q+A	17:17 - 17:22
Frequency of Post-operative CSF Diversion in patients with third ventricular colloid cyst: A single center retrospective analysis	17:22 - 17:26
<i>Abstract Presenter:</i> Saqib Kamran Bakhshi (Karachi, Pakistan)	

Post-Covid Cerebral Mucormycosis, Varied Presentations and Surgical Strategies of a Newer Epidemic: An Institutional Experience	17:26 - 17:30
<i>Abstract Presenter:</i> Vivek Nagappa (Mangalore, India)	
Outcomes and practicality of subcutaneously implanted bone flaps in the abdominal wall following decompressive craniectomy and subsequent use in cranioplasty	17:30 - 17:34
<i>Abstract Presenter:</i> Abeer Alaglan (Riyadh, Saudi Arabia)	
Mixed reality tool for craniotomy in neurosurgery: evaluating the benefit of augmented visualization during planning	17:34 - 17:38
<i>Abstract Presenter:</i> Marco Paolo Schiariti (Milan, Italy)	
Comparison of surgical outcomes of ventriculoperitoneal versus lumbar-peritoneal shunts in managing intracranial hypertension secondary to cryptococcal meningitis in HIV-infected patients	17:38 - 17:42
<i>Abstract Presenter:</i> Ndyebo Mabovula (Durban, South Africa)	
Q+A	17:42 - 17:48
Shunts in Idiopathic Intracranial Hypertension	17:48 - 17:52
<i>Abstract Presenter:</i> Yihui Cheng (Glasgow, United Kingdom)	
Management and outcomes of Acinetobacter baumannii meningitis in post-neurosurgical patients at Inkosi Albert Luthuli Central Hospital	17:52 - 17:56
<i>Abstract Presenter:</i> Diketso Mathebula (Durban, South Africa)	
Optic Nerve Sheath Diameter Measurement with Ultrasound in Outpatient Clinics: a practical non-invasive tool for treatment decisions	17:56 - 18:00
<i>Abstract Presenter:</i> Leonardo Rocha-Carneiro García-Zapata (Goiânia, Brazil)	
Endoscopic versus Microsurgical Resection of Third Ventricle Colloid Cysts: A Single-Center Case Series of 140 Consecutive Patients	18:00 - 18:04
<i>Abstract Presenter:</i> Guive Sharifi (Iran)	
Pediatric brain tumors in Sub-Saharan Africa: A Systematic Review and Meta-Analysis	18:04 - 18:08
<i>Abstract Presenter:</i> Arsene Daniel Nyalundja (Bukavu, Congo (Democratic Republic))	
THE 10,000-FOLD-EFFECT OF RETROGRADE NEUROTRANSMISSION-A NEW CONCEPT FOR CEREBRAL-PALSY REVIVAL: USE OF NITRIC-OXIDE-DONARS (INTRATHECAL SODIUM NITROPRUSSIDE AND ORAL TADALAFIL)	18:08 - 18:12
<i>Abstract Presenter:</i> VINOD KUMAR (LUCKNOW, India)	
Q+A	18:12 - 18:18
<i>Abstract Presentations</i> 16:30 - 18:30	R1.6A
PERIPHERAL NERVE	
<i>Chair:</i> Nora Dengler (Germany) <i>Chair:</i> Rajiv Midha (Canada)	
Novel Technique for Reliably Restoring Peripheral Nerve Function while Permanently Eliminating Chronic Neuropathic Pain	16:30 - 16:39
<i>Abstract Presenter:</i> Damien Kuffler (San Juan, United States)	
Nerve transfers for axillary nerve repair in brachial plexus injury: results of 206 adult patients	16:39 - 16:48
<i>Abstract Presenter:</i> Pavel Haninec (Czech Republic)	

Risk factors for obstetrical brachial plexus palsy: can we predict the failure of spontaneous reinnervation	16:48 - 16:57
<i>Abstract Presenter:</i> Libor Mencl (Czech Republic)	
Management strategies of obstetrical brachial plexus injuries	16:57 - 17:01
<i>Abstract Presenter:</i> Hesham Elsobky (Mansoura, Egypt)	
Q+A	17:01 - 17:07
Neuropathic Pain Relief after Surgical Neurolysis in Patients with Traumatic Brachial Plexus Injuries: A Preliminary Report	17:07 - 17:11
<i>Abstract Presenter:</i> Armando Armas-Salazar (Mexico City, Mexico)	
Does isolated surgical neurolysis continue to be a useful technique for clinical recovery in adult patients with brachial plexus neuropathy?	17:11 - 17:15
<i>Abstract Presenter:</i> Armando Armas-Salazar (Mexico City, Mexico)	
Motor Recovery after Surgical neurolysis in Brachial Plexus Neuropathy: A Case series and Systematic review	17:15 - 17:19
<i>Abstract Presenter:</i> Armando Armas-Salazar (Mexico City, Mexico)	
Pain and Sensory Symptoms in Brachial Plexus Neuropathy: Outcomes after Surgery and Proposal of a Sensory Frequency of Symptoms Scale	17:19 - 17:23
<i>Abstract Presenter:</i> Armando Armas-Salazar (Mexico City, Mexico)	
Q+A	17:23 - 17:28
Possible donor nerves for axillary nerve reconstruction in dual neurotization for restoring shoulder abduction in BPI: systematic review and meta-analysis	17:28 - 17:32
<i>Abstract Presenter:</i> Michal Makeš (Czech Republic)	
Anatomical aspects of the selective infraspinatus muscle neurotization by spinal accessory nerve	17:32 - 17:36
<i>Abstract Presenter:</i> Michal Makeš (Czech Republic)	
THE EFFECT OF BIO-CELLULOSE + GRAPHENE GRAFT & ADIPOSE STEM CELL ON AXONAL REGENERATION IN EXPERIMENTAL SCIATIC NERVE INJURY	17:36 - 17:40
<i>Abstract Presenter:</i> Ismail Simsek (Mersin, Turkey)	
Q+A	17:40 - 17:45

Friday, 08. December 2023*Headline Topics*

08:30 - 10:00

Ballroom West

SURGICAL TECHNIQUE: Anatomy**Cushing's Disease: Surgical Treatment**

08:30 - 08:40

Anatomy and Surgical Technique for Petrous Meningiomas

08:40 - 08:50

Speaker: Sanjeeva Jeyaretna (United Kingdom)**Treatment of Cerebral Aneurysm**

08:50 - 09:00

Anatomy of the Superficial Temporal Artery in Bypass Surgery

09:00 - 09:10

Speaker: Bin Xu (China)**Anatomy around the posterior communicating aneurysms**

09:10 - 09:20

Speaker: Soichi Oya (Kawagoe, Japan)**Understanding the Cerebellar Pontine Angle**

09:20 - 09:30

Anatomy of the Common Pituitary Adenomas

09:30 - 09:40

Pineal Region Anatomy

09:40 - 09:50

Headline Topics

08:30 - 10:00

Auditorium 2

SURGICAL TECHNIQUE: Skull Base*Chair:* Mario Ammirati (United States)*Chair:* Carlos David (United States)**Minimalistic approaches to cranio-vertebral junction tumors**

08:30 - 08:37

Speaker: Mario Ammirati (United States)**Excision of a jugular foramen tumor**

08:37 - 08:44

Speaker: Carlos David (United States)**Extradural posterior clinoidectomy for prepontine lesions**

08:44 - 08:51

Speaker: Cristian Naudy (Chile)**Microsurgical clipping of complex intracranial aneurysms**

08:51 - 08:58

Speaker: Jean G de Oliveira (Brazil)**Pediatric skull base tumors**

08:58 - 09:05

Speaker: Igor Vilela Faquini (Brazil)**Microsurgical management of ruptured intracranial aneurysm**

09:05 - 09:12

Speaker: Omotayo Ojo (Nigeria)**Membrenectomy in chronic subdural haematoma**

09:12 - 09:19

Speaker: JULIUS KIBOI (Nairobi, Kenya)**Expanding indications and current limitations of endoscopic endonasal surgery for skull base tumors: from the anterior skull base to the petroclival and craniovertebral lesions**

09:19 - 09:26

Speaker: Yuki Shinya (Japan)**eyebrow Approach for Tuberculum Sellae Meningioma in Patient with CA Nasopharynx**

09:26 - 09:33

Speaker: Jonathan Alan Tangsrivimol (Thailand)**Endoscopic transphenoidal resection of a giant fibrous pituitary macroadenoma**

09:33 - 09:40

Speaker: Basil Enicker (Durban, South Africa)

Endoscopic endonasal approach for cavernous sinus hemangioma

09:40 - 09:47

Speaker: Bernardo Barbosa (Brazil)

Endoscopic transoral decompression

09:47 - 09:54

Speaker: Ake Hansasuta (Thailand)

Headline Topics

08:30 - 10:00

R2.6A

SURGICAL TECHNIQUE: Vascular

Chair: Leonidas Quintana (Vina del Mar, Chile)

Chair: Peter Nakaji (United States)

Clipping Complex Aneurysms

08:30 - 08:40

Speaker: Stefan Florian (Romania)

Clipping of Posterior Circulation Aneurysms

08:40 - 08:50

Speaker: Waleed Abbas (Egypt)

AVMs

08:50 - 09:00

Speaker: Eduardo Vieira de Carvalho Junior (Brazil)

Carotid Stenosis

09:00 - 09:10

Speaker: Dwarakanath Srinivas (India)

Deep-Seated Cavernomas

09:10 - 09:20

Speaker: Peter Nakaji (United States)

Bypass surgery

09:20 - 09:30

Speaker: Bin Xu (China)

Headline Topics

08:30 - 10:00

R2.6B

SURGICAL TECHNIQUE: Neurotrauma

Chair: Russel Andrews (United States)

Chair: Yi Lu (United States)

Back in the field again following surgical treatment of peripheral nerve injuries in athletes - myth or reality?

08:30 - 08:45

Speaker: Lukas Rasulic (Serbia)

The use of percutaneous screws in the bamboo spine (AS and DISH)

08:45 - 09:00

Speaker: Ann Parr (United States)

The role of neurovascular interventions in TBI

09:00 - 09:15

Speaker: David LeFeuvre (South Africa)

3D-technique in cranioplasty

09:15 - 09:30

Speaker: Virendra Deo Sinha (India)

The hinge craniotomy - surgical techniques

09:30 - 09:45

Speaker: Robson Amorim (Manaus, Brazil)

Simplifying Complex spine Surgery with 'Anjali Technique': A fully manual operative technique for achieving Robotic Spinal Fixation precision

09:45 - 10:00

Speaker: AVINASH HARIDAS (CHERTHALA, India)

Headline Topics

08:30 - 10:00

R2.4A

SURGICAL TECHNIQUE: Neuro-endoscopy*Chair:* Takeo Goto (Japan)*Chair:* Roman Bosnjak (Slovenia)**Endoscopy-assisted orbital approaches in children and adults**

08:30 - 08:42

Speaker: Llewellyn Padayachy (South Africa)**Fully endoscopic supraorbital eyebrow approach for excision of a tuberculum sellae meningioma**

08:42 - 08:54

Speaker: Waleed Azab (Kuwait)**Endoscopic endonasal approaches to skull base tumors**

08:54 - 09:06

Speaker: Takeo Goto (Japan)**Endonasal clipping of carotid aneurysm in sphenoid sinus**

09:06 - 09:18

Speaker: Alvaro Cordoba (Uruguay)**Endoscopic endonasal resection of chordomas**

09:18 - 09:30

Speaker: Henry Schroeder (Germany)**Endoscopic endonasal approach to schwannomas in the cavum Meckeli**

09:30 - 09:42

Speaker: Roman Bosnjak (Slovenia)**Fully endoscopic retrosigmoid approach for excision of a hypoglossal schwannoma**

09:42 - 09:54

Speaker: Waleed Azab (Kuwait)*Headline Topics*

08:30 - 10:00

R2.4B

SURGICAL TECHNIQUE: Neuro-Oncology*Chair:* Kenan Arnautovic (United States)**Microsurgical treatment of craniocervical and brainstem tumors**

08:30 - 08:50

Speaker: Kenan Arnautovic (United States)**Surgical resection of chordomas**

08:50 - 09:10

Headline Topics

08:30 - 10:00

R1.4A

SURGICAL TECHNIQUE: Spine procedural technique - Videos*Chair:* Sandeep Vaishya (India)*Chair:* Jeong Yoon Park (Korea, Republic of)*Chair:* Toshihiro Takami (Japan)**Anterior cervical disc arthroplasty/ artificial disc replacement**

08:30 - 08:37

Speaker: Artem Gushcha (Russian Federation)**Anterior cervical corpectomy for OPLL**

08:37 - 08:44

Cervical laminoplasty/ laminectomy and lateral mass fusion

08:44 - 08:51

Speaker: Zan Chen (China)**Posterior cervical fusion including CVJ or C1/2 (Goel's technique of C1-C2 fusion)**

08:51 - 08:58

Speaker: Salman Sharif (Pakistan)**Posterior lumbar minimally invasive decompression for disc/canal stenosis (microscopic)**

08:58 - 09:05

Speaker: Mehmet Zileli (Turkey)*Speaker:* Sandeep Vaishya (India)

Biportal endoscopic spine surgery	09:05 - 09:12
<i>Speaker:</i> Jeong Yoon Park (Korea, Republic of)	
Minimally invasive TLIF/PLIF - percutaneous	09:12 - 09:17
<i>Speaker:</i> Nikolay Peev (United Kingdom)	
LLIF/OLIF for spinal deformity	09:17 - 09:24
<i>Speaker:</i> Mirza Pojskic (Marburg, Germany)	
Thoracic/lumbar trauma fixation techniques	09:24 - 09:31
<i>Speaker:</i> Aderehime Haidara (Cote D'Ivoire)	
Extramedullary tumour - minimally invasive surgery for IDEM	09:31 - 09:38
<i>Speaker:</i> Sandeep Vaishya (India)	
Intramedullary tumour - surgical technique	09:38 - 09:45
<i>Speaker:</i> Toshihiro Takami (Japan)	
Spinal dural AVF - surgical technique	09:45 - 09:52
<i>Speaker:</i> Joachim Oertel (Germany)	
<i>Headline Topics</i>	
08:30 - 10:00	R1.4B
SURGICAL TECHNIQUE: Paediatrics	
<i>Chair:</i> Anthony Figaji (South Africa)	
Spinal cord surgery in children	08:30 - 09:00
<i>Speaker:</i> George Jallo (St Petersburg, United States)	
Pineal tumour surgery	09:00 - 09:30
<i>Speaker:</i> Anthony Figaji (South Africa)	
<i>Headline Topics</i>	
08:30 - 10:00	R1.6A
SURGICAL TECHNIQUE: Peripheral Nerve	
<i>Chair:</i> Chris Winfree (United States)	
<i>Chair:</i> Nora Dengler (Germany)	
Radial Nerve Injury	08:30 - 08:45
<i>Speaker:</i> Rajiv Midha (Canada)	
BNST resection - how I do it	08:45 - 09:00
<i>Speaker:</i> Justus Groen (Netherlands)	
Thoracic outlet syndrome - how I do it	09:00 - 09:15
<i>Speaker:</i> Nora Dengler (Germany)	
Brachial plexus reconstruction strategies	09:15 - 09:30
<i>Speaker:</i> Line Jacques (United States)	
Surgical strategy for MP (1) - how I do it	09:30 - 09:45
<i>Speaker:</i> Amgad Hanna (United States)	
Surgical strategy for MP (2) - how I do it	09:45 - 10:00
<i>Speaker:</i> Godard de Ruitter (Netherlands)	
<i>Refreshment Break</i>	
10:00 - 10:30	
Refreshment Break	

<i>Plenary Session</i>	
10:30 - 13:00	Auditorium 1
AS THE WORLD TURNS: The impact of current and future international efforts in Neurosurgery	
<i>Chair:</i> Basil Enicker (Durban, South Africa)	
<i>Chair:</i> Sarah Woodrow (Canada)	
Neuro-ethics: Global or Local?	10:30 - 10:45
<i>Speaker:</i> Tiit Mathiesen (Denmark)	
For Africa in Missions, Stories to tell and remember	10:45 - 11:00
<i>Speaker:</i> Ahmed Alkhani (Saudi Arabia)	
Global Neurotrauma Initiatives	11:00 - 11:15
<i>Speaker:</i> Peter Hutchinson (Cambridge, United Kingdom)	
International initiatives in Paediatric Neurosurgery	11:15 - 11:30
<i>Speaker:</i> Rick Boop (United States)	
Global Spine Health	11:30 - 11:45
<i>Speaker:</i> Salman Sharif (Pakistan)	
Lessons learned in conducting large scale surgical outcomes studies in Africa	11:45 - 12:00
<i>Speaker:</i> Bruce Bickard (South Africa)	
Implantable technologies to neurological functions	12:00 - 12:30
<i>Speaker:</i> Gregoire Courtine (Switzerland)	
<i>Speaker:</i> Jocelyne Bloch (Switzerland)	
'We're gonna need a bigger boat'. What must we do to build a stronger global community for the future (Panel discussion)	12:30 - 13:00
<i>Panelist:</i> Allan Taylor (South Africa)	
<i>Panelist:</i> James Balogun (Nigeria)	
<i>Panelist:</i> Tariq Khan (Pakistan)	
 <i>Refreshment Break</i>	
13:00 - 14:00	
Refreshment Break	
 <i>Speciality Breakaways</i>	
14:00 - 16:00	
Ballroom East	
Maximising Impact: Neurosurgeons in Policy	
<i>Chair:</i> Kee Park (United States)	
<i>Chair:</i> Radzi Hamzah (United States)	
Introduction	14:00 - 14:12
<i>Speaker:</i> Kee Park (United States)	
<i>Speaker:</i> Radzi Hamzah (United States)	
LMIC Head and Spine Injury recommendations	14:12 - 14:24
<i>Speaker:</i> Tariq Khan (Pakistan)	
WHO IGAP on Epilepsy and Other Neurological Disorders	14:24 - 14:36
<i>Speaker:</i> Camilla Grøver Aukrust (Oslo, Norway)	
Neurosurgeons' Roles in Implementing the WHO Folic Acid Fortification Resolution	14:36 - 14:48
<i>Speaker:</i> Kemel A. Ghotme (Colombia)	
Political priority of global neurosurgery	14:48 - 15:00
<i>Speaker:</i> Martina Gonzalez (United States)	
Comprehensive Brain Tumor Recommendations for LMICs	15:00 - 15:12
<i>Speaker:</i> Kee Park (United States)	

Role of Young Neurosurgeons and Trainees in Policy	15:12 - 15:24
<i>Speaker:</i> Radzi Hamzah (United States)	
Policy: a Roadmap to Implementation	15:24 - 15:36
<i>Speaker:</i> Kee Park (United States)	
Discussion	15:36 - 16:00
<i>Speciality Breakaways</i> 14:00 - 16:00	Ballroom West
Peripheral Nerve Sheath Tumors	
<i>Chair:</i> Amgad Hanna (United States)	
<i>Chair:</i> Line Jacques (United States)	
Current Concepts and innovations in adult peripheral nerve and brachial plexus reconstruction surgery	14:00 - 14:15
<i>Speaker:</i> Lukas Rasulic (Serbia)	
PNST in neurogenetic disease	14:15 - 14:30
<i>Speaker:</i> Debora Garozzo (United Arab Emirates)	
Imaging in tumour	14:30 - 14:45
<i>Speaker:</i> Yuval Shapira (Israel)	
Rare BPNSTs	14:45 - 15:00
<i>Speaker:</i> Nora Dengler (Germany)	
MPNST	15:00 - 15:15
<i>Speaker:</i> Justus Groen (Netherlands)	
Phrenic nerve stimulation - how I do it	15:15 - 15:30
<i>Speaker:</i> Elias Rizk (United States)	
Spacticity procedures after stroke	15:30 - 15:45
<i>Speaker:</i> Justin Brown (United States)	
DREZ	15:45 - 16:00
<i>Speaker:</i> Chris Winfree (United States)	
<i>Speciality Breakaways</i> 14:00 - 14:50	Auditorium 2
Skull Base: Craniopharyngioma Advances	
<i>Chair:</i> Carlos Eduardo da Silva (Brazil)	
Craniopharyngioma case presentations	14:00 - 14:08
<i>Speaker:</i> Miguel Mural (Argentina)	
Craniopharyngioma case presentations	14:08 - 14:16
<i>Speaker:</i> Ake Hansasuta (Thailand)	
Craniopharyngioma case presentations	14:16 - 14:24
<i>Speaker:</i> Jonathan Alan Tangsrivimol (Thailand)	
Craniopharyngioma case presentations	14:24 - 14:32
<i>Speaker:</i> Domenico Solari (Italy)	
Craniopharyngioma case presentations	14:32 - 14:40
<i>Speaker:</i> Cristian Naudy (Chile)	
Craniopharyngioma case presentations	14:40 - 14:48
<i>Speaker:</i> Tom Beaumont (United States)	

<i>Speciality Breakaways</i> 14:00 - 16:00	R2.6A
Vascular VI - Brain AVMs	
<i>Chair:</i> Dwarakanath Srinivas (India)	
<i>Chair:</i> Eduardo Vieira de Carvalho Junior (Brazil)	
<i>Chair:</i> Mahjouba Boutarbouch (Morocco)	
Neurosurgical management of brain AVMs	14:00 - 14:15
<i>Speaker:</i> Jean G de Oliveira (Brazil)	
Grade III AVMS - Debates on management	14:15 - 14:30
<i>Speaker:</i> Dwarakanath Srinivas (India)	
Surgical treatment of brain AVMs in Senegal	14:30 - 14:45
<i>Speaker:</i> Mbaye Thioub (Senegal)	
Treatment of high grade Intracranial dural arterio-venous fistulae leading to reversible Dementia in elderly	14:45 - 15:00
<i>Speaker:</i> Mahjouba Boutarbouch (Morocco)	
Microsurgical Treatment of Spetzler-Martin grade 3 arteriovenous malformations	15:00 - 15:15
<i>Speaker:</i> Eduardo Vieira de Carvalho Junior (Brazil)	
AVMs - gamma knife radiosurgery trends in treatment and systematic literature review	15:15 - 15:30
<i>Speaker:</i> Patrick Grover (United Kingdom)	
AVMs Surgery Complications	15:30 - 15:45
<i>Speaker:</i> Stefan Florian (Romania)	
AVM resection after partially nidus embolization and radiosurgery	15:45 - 16:00
<i>Speaker:</i> M.Erhan Türkoğlu (Turkey)	
The 5-Factor modified frailty index in unruptured cerebral aneurysm and meningioma surgery?	16:00 - 16:15
<i>Speaker:</i> FUSAO IKAWA (Horoshima, Japan)	
 <i>Speciality Breakaways</i> 14:00 - 14:50	 R2.6B
Neurotrauma I	
<i>Chair:</i> Massimiliano Visocchi (Italy)	
<i>Chair:</i> Lynne Lucena (Philippines)	
<i>Chair:</i> Amos Adeleye (Nigeria)	
Use of ICP wave form curve in the management of TBI	14:00 - 14:08
Post traumatic hydrocephalus	14:08 - 14:16
<i>Speaker:</i> Kostas Fountas (Greece)	
Collaboration between neurosurgeons, emergency physicians and intensivists in neurotrauma treatment in Japan	14:16 - 14:24
<i>Speaker:</i> Eiichi Suehiro (Narita, Japan)	
Neurotrauma: a Ghanaian perspective	14:24 - 14:32
<i>Speaker:</i> Teddy Totimeh (Ghana)	
Basic concepts and clinical diagnosis of traumatic brachial plexus injuries	14:32 - 14:40
<i>Speaker:</i> Lukas Rasulic (Serbia)	
A brief overview on peripheral nerve injuries in the setting of global neurosurgery	14:40 - 14:48

<i>Speciality Breakaways</i> 14:00 - 16:00	R2.4A
Neuro-endoscopy	
Round Table on Craniopharyngiomas	14:00 - 14:00
EEA for craniopharyngiomas	14:00 - 14:11
<i>Speaker:</i> John Jane Jr (United States)	
Craniopharyngeoma	14:11 - 14:22
<i>Speaker:</i> Domenico Solari (Italy)	
The role of Lilliequist Membrane in ETV	14:22 - 14:33
<i>Speaker:</i> José Aloysio (Brazil)	
Tips in Pediatric ETV	14:33 - 14:44
<i>Speaker:</i> José Aloysio (Brazil)	
Craniopharyngioma	14:44 - 14:55
<i>Speaker:</i> Adrian Caceres (Costa Rica)	
Endoscopic assisted and endoscopic endonasal surgery for pediatric craniopharyngioma	14:55 - 15:06
<i>Speaker:</i> Mohamed El Beltagy (Egypt)	
Endoscopic Resection of Skull Base Tumors	15:06 - 15:06
Endoscopic key hole approaches to skull base tumors	15:06 - 15:17
<i>Speaker:</i> Takeo Goto (Japan)	
Endoscopic supracerebellar-infratentorial approach	15:17 - 15:28
<i>Speaker:</i> Roman Bosnjak (Slovenia)	
Endoscopic management for pineal region tumors in children	15:28 - 15:39
Skull base reconstruction	15:39 - 15:50
<i>Speaker:</i> Domenico Solari (Italy)	
CSF fistula - improving outcome	15:50 - 16:00
<i>Speaker:</i> Salman Sharif (Pakistan)	
 <i>Speciality Breakaways</i> 14:00 - 16:00	 R2.4B
Neuro-oncology - Various	
<i>Chair:</i> Oliver Bozinov (Switzerland)	
<i>Chair:</i> Arnold Etame (United States)	
Laser ablation for brain tumors - lessons learned and using AI to predict extent of ablation	14:00 - 14:20
<i>Speaker:</i> Michael Ivan (United States)	
Are gliomas a good indication for LITT	14:20 - 14:40
<i>Speaker:</i> Oliver Bozinov (Switzerland)	
Safety, Tolerability, and Outcomes of Brain Metastases treated with Stereotactic Radiosurgery and Targeted Cancer Therapies	14:40 - 15:00
<i>Speaker:</i> Arnold Etame (United States)	
Acoustic neuromas - Learning Curve with 120 cases	15:00 - 15:20
<i>Speaker:</i> Michael Ivan (United States)	
Discussion	15:20 - 15:40

<i>Speciality Breakaways</i>		
14:00 - 16:00		R1.4A
Complications: CSF Leaks / General Neurosurgery		
<i>Chair:</i> Imad Kanaan (Saudi Arabia)		
Introduction	14:00 - 14:05	
<i>Speaker:</i> Keki Turel (India)		
Challenges & Solutions for Complications Avoidance in Neurological Surgery in Low & Middle Income Countries	14:05 - 14:15	
Complications while aneurysm treatment by endovascular way	14:15 - 14:25	
High grade gliomas- complications following surgery	14:25 - 14:35	
<i>Speaker:</i> Atul Goel (Mumbai, India)		
Vertebral artery injury during standard retrosigmoid sigmoid exposure	14:35 - 14:45	
<i>Speaker:</i> Suresh Nair Narayanan Nair (Trivandrum, India)		
Vertebral Artery Pseudoaneurysm Complicating after Occipitocervical Arthrodesis	14:45 - 14:55	
<i>Speaker:</i> Manuel de Jesus Encarnación Ramirez (Russian Federation)		
CSF Leaks	14:55 - 15:05	
<i>Speaker:</i> Basant Misra (India)		
CSF Leaks	15:05 - 15:15	
<i>Speaker:</i> Sanjeeva Jeyaretna (United Kingdom)		
Decompressive craniectomy - In neurosurgery Nothing is easy	15:15 - 15:25	
<i>Speaker:</i> Virendra Deo Sinha (India)		
Discussion	15:25 - 16:00	
<i>Speciality Breakaways</i>		
14:00 - 15:30		R1.4B
Brain Computer Interfaces and Neuroprosthetics		
<i>Chair:</i> Charles Liu (United States)		
<i>Chair:</i> Graham Fieggen (South Africa)		
An update on brain-computer interfaces	14:00 - 14:20	
<i>Speaker:</i> Charles Liu (United States)		
Neuroprosthetics	14:20 - 14:40	
<i>Speaker:</i> Gavin Britz (United States)		
Neural implants for hearing	14:40 - 15:00	
<i>Speaker:</i> Amir Samii (Germany)		
Discussion	15:00 - 15:30	
<i>Speciality Breakaways</i>		
14:50 - 16:00		R2.6B
Neurotrauma II		
<i>Chair:</i> Russel Andrews (United States)		
<i>Chair:</i> Petr Vacek (Plzen, Czech Republic)		
<i>Chair:</i> Mario Ganau (Oxford, United Kingdom)		
The importance of Neurotrauma being classified as a notifiable condition	14:50 - 14:57	
<i>Speaker:</i> Tariq Khan (Pakistan)		
Global Best Practices Meets Local Realities: The Neurotrauma	14:57 - 15:04	

Initiative in Sucre, Bolivia	
<i>Speaker:</i> Richard Moser (United States)	
Conundrums of Compassion: Ethics around Aggression vs Restraint on Severe TBI	15:04 - 15:11
<i>Speaker:</i> Luxwell Jokonya (Zimbabwe)	
TBI study (COACTACT) in Umuahia	15:11 - 15:18
<i>Speaker:</i> Opara Oluwamayowa (Nigeria)	
Bone injuries in head trauma at Kinshasa university hospital	15:18 - 15:25
<i>Speaker:</i> Glennie Ntsambie Eba (Kinshasa, Congo (Democratic Republic))	
Delayed deterioration following TBI in the elderly	15:25 - 15:32
<i>Speaker:</i> Hiroshi Karibe (Japan)	
What's wrong with our Current ICP Concepts?	15:32 - 15:39
<i>Speaker:</i> Randall Chesnut (United States)	
Head Injury in India	15:39 - 15:46
<i>Speaker:</i> Jogi Pattisapu (United States)	
<i>Speciality Breakaways</i> 15:00 - 15:50	Auditorium 2
Skull Base: Posterior Fossa & Jugular Foramen Tumors	
<i>Chair:</i> Luis Borba (Brazil)	
Posterior Fossa & Jugular Foramen Tumors case presentations	15:00 - 15:08
<i>Speaker:</i> Álvaro Campero (Argentina)	
Posterior Fossa & Jugular Foramen Tumors case presentations	15:08 - 15:16
<i>Speaker:</i> Hirotaka Hasegawa (Japan)	
Posterior Fossa & Jugular Foramen Tumors case presentations	15:16 - 15:24
<i>Speaker:</i> Takeo Goto (Japan)	
Posterior Fossa & Jugular Foramen Tumors case presentations	15:24 - 15:32
<i>Speaker:</i> Atul Goel (Mumbai, India)	
Posterior Fossa & Jugular Foramen Tumors case presentations	15:32 - 15:40
<i>Speaker:</i> Carolina Benjamin (United States)	
<i>Refreshment Break</i> 16:00 - 16:15	Ballroom East
Transfer time	
<i>Refreshment Break</i> 16:00 - 16:15	Ballroom West
Transfer time	
<i>Refreshment Break</i> 16:00 - 16:15	Auditorium 2
Transfer time	
<i>Closing Plenary</i> 16:15 - 17:10	Ballroom East
Closing Ceremony	
Golden Globe Inspiration	16:15 - 16:25
<i>Speaker:</i> Kirsten Neuschafer (South Africa)	

Madrid 2025	16:25 - 16:40
<i>Speaker:</i> Jesus Lafuente (Spain)	
WFNS: Beyond 2023!	16:40 - 16:55
<i>Speaker:</i> Najia El Abbadi (Morocco)	
Closing remarks and thanks	16:55 - 17:10
<i>Speaker:</i> Graham Fieggen (South Africa)	
<i>Speaker:</i> Anthony Figaji (South Africa)	
<i>Speaker:</i> Allan Taylor (South Africa)	