



17TH ANNUAL MEETING OF THE SAUDI ASSOCIATION OF NEUROLOGICAL SURGERY

DAY 1: Sunday 5th March 2023

Session 1: 08:00 - 10:30

Hall A: (Early Morning General Session)

Chairpersons: Dr. Mahmoud Alyamany | Prof. Saleh Baesa | Prof. Mubarak Algahtany

Time	Topic	Presenter
08:00 - 08:20	Spinal Cord Injury	Prof. Marios Papadopoulos
08:20 - 08:30	The changing aetiology and epidemiology of traumatic spinal injury: a population-based	Prof. Mubarak Algahtany
08:30 - 08:40	Expanded endoscopic endonasal odontoidectomy: indications, limitations, surgical techniques, and clinical outcomes, The Ottawa Hospital experience	Dr. Fahad Alkherayf
08:40 - 08:50	The presentation, management, and outcomes of Cauda Equina Syndrome: a multi-centre prospective cohort study	Dr. Aimun Jamjoom
08:50 - 09:00	Neurosurgery Scientific Council, SCFHS: achievements and future challenges	Prof. Ahmed Alkhani
09:00 - 09:20	Cerebrovascular and skull base surgery: The inseperable twins	Prof. Jacques Morcos (Virtual Presentation)
09:20 - 09:30	Discussion	
09:30 - 10:00	Prof Khalaf AlMoutaery's Keynote Speech "Understanding the craniovertebral junction"	Prof. Atul Goel (Introduced by Prof. Ammar)
10:00 - 10:30	Opening Ceremony 2023 SANS Gold Medal Prize Award	(Introduced by Prof. Ammar)
10:30 - 11:00	Coffee	



17TH ANNUAL MEETING OF THE SAUDI ASSOCIATION OF NEUROLOGICAL SURGERY

DAY 1: Sunday 5th March 2023

Session 2A: 11:00 - 13:00

Hall A: (Neuro-oncology)

Chairpersons: Prof. Ahmed AlKhani | Prof. Sherif Elwatidy | Dr. Salah Alakkad

Time	Topic	Presenter
11:00 - 11:20	Planning treatment in complex brain tumour	Prof. Atul Goel
11:20 - 11:40	Awake Craniotomy for low grade gliomas	Prof. Hugues Duffau (Virtual Presentation)
11:40 - 11:50	Intraoperative 3Tesla magnetic resonance imaging for brain tumours: single centre experience	Dr. Basim Noor Elahi
11:50 - 12:00	Angiographic characterization of gliomas: a single centre experience in Saudi Arabia	Dr. Hosam Aljehani
12:00 - 12:10	Atypical meningioma compared to other grade 2 meningioma: histological features and prognosis	Dr. Saif Almeshari
12:10 - 12:20	Atypical meningioma: a continuous scenario	Prof. Hossam El Husseiny
12:20 - 12:30	Management of incidental meningioma: treat or observe?	Dr. Mahmoud Taha
12:30 - 12:40	Giant olfactory groove meningioma surgery results: a series of 71 cases	Prof. Ashraf Elbadry
12:40 - 12:50	Functional and neuropsychological outcomes of giant olfactory groove meningioma resection	Dr. Sami Khairy
12:50 - 13:00	Discussion	
13:00 - 14:00	Lunch	
13:00 - 13:30	Special Presentation: Role of Specialized Council of National Health Societies	Dr. Talat Waznah (Introduced by Dr. Ali Bin Salama)



17TH ANNUAL MEETING OF THE SAUDI ASSOCIATION OF NEUROLOGICAL SURGERY

DAY 1:

Sunday 5th March 2023

Session 2B: 11:00 - 13:00

Hall B: (Paediatric Neurosurgery)

Chairpersons: Dr. Maher Hassounah | Prof. Walid Murshid | Dr. Hussam Kutub

Time	Topic	Presenter
11:00 - 11:10	Keyhole craniotomy for excision of tumours and clipping of aneurysm in children	Prof. Ali Al Mashani
11:10 - 11:20	Temporary cystoperitoneal shunt (CPS) for management of pseudo meningocele in spinal dysraphism surgeries: technique and effectiveness	Dr. Hanan Aljohani
11:20 - 11:30	The timing between myelomeningocele repair and ventriculoperitoneal shunt insertion	Ms. Nourah Al Otaibi
11:30 - 11:40	Outcome of endoscopic third ventriculostomy in a university hospital in Jeddah, Saudi Arabia: a retrospective record review study	Mr. Omar Aljohani
11:40 - 11:50	Unilateral three-quarter advancement of the fronto orbital bar in the treatment of unilateral coronal synostosis	Dr. Abdulrahman Sabbagh
11:50 - 12:00	Post-operative outcomes of posterior fossa lesions in paediatric and adult patients: a retrospective single centre experience	Ms. Razan Alqarni
12:00 - 12:10	Open non-sagittal craniosynostosis surgery without the use of bioabsorbable plates	Dr. Abdulrahman Sabbagh
12:10 - 12:20	Complex paediatric cervical spine deformities: challenging cases and outcome	Dr. Wael Alshaya
12:20 - 12:30	Paediatric spine surgery for non-congenital spinal conditions	Dr. Mohammed Elzain
12:30 - 12:40	A benchtop brain injury model using resected donor tissue from patients with Chiari malformation	Dr. Jon Sen
12:40 - 13:00	Discussion	
13:00 - 14:00	Lunch	



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DAY 1: Sunday 5th March 2023

Session 3A: 14:00 - 16:00

Hall A: (Skull Base and Mixed Topics)

Chairpersons: Dr. Bassam Addas | Dr. Fahad Alkhrayef | Dr. Homood Aldahsh

Time	Topic	Presenter
14:00 - 14:10	Modified surgical technique for Chiari malformation	Prof. Ali Al Mashani
14:10 - 14:20	Far lateral approach to the foramen magnum and craniocervical junction: an institutional experience	Dr. Sarah Bin Abdulqader
14:20 - 14:30	Intraoperative factors as predictors of the degree of pituitary macroadenoma resection	Dr. Basim Noor Elahi
14:30 - 14:40	Pituitary apoplexy surgery: a prospective and retrospective case series of 23	Prof. Ashraf Elbadry
14:40 - 14:50	Endoscopic proximal control technique for lacerum segment internal carotid artery utilizing Fogarty catheter: cadaveric research and an operative case illustration	Dr. Abdulaziz Almusa
14:50 - 15:00	Suprasellar meningioma classification: endoscopic transnasal perspective	Dr. Basim Noor Elahi
15:00 - 15:10	Management of recurrent carpal tunnel syndrome	Dr. Bassam Addas
15:10 - 15:20	New neuronal growth factor (NNGF): a new growth factor on the horizon	Prof. Mir Sadat-Ali
15:20 - 15:30	Mini invasive fixation of the upper cervical spine: experience with 14 patients	Prof. Soufiane Ramadani
15:30 - 15:40	Biomechanics of spinal instrumentations: a review of basic concepts and clinical implications	Dr. Omar Elwadany
15:40 - 16:00	Discussion	
16:00 - 16:30	Coffee	



17TH ANNUAL MEETING OF THE SAUDI ASSOCIATION OF NEUROLOGICAL SURGERY

DAY 1: Sunday 5th March 2023

Session 3B: 14:00 - 16:00

Hall B: (Saudi Society of Neurological Interventions Session)

Chairman: Dr. Abdulrahman AlTurki

Time	Topic	Presenter
14:00 - 14:10	Greeting and Introduction to SANS and SSNI Collaboration	Dr. Abdulrahman AlTurki
Session 1: Moderators: Dr. Jameel Alrashedi Dr. Gaouth Waggas		
14:10 - 14:20	Stroke landscape in Saudi Arabia	Dr. Fahmi Alsinani
14:20 - 14:30	CVST endovascular approach path isn't selection and approach	Dr. Abdulrahman Aldakkan
14:30 - 14:40	EVT, is it treatment for all?	Dr. Naif Alotaibi
14:40 - 14:45	Questions	
Session 2: Moderators: Prof. Yasser Orz Dr. Sultan Alqahtani		
14:45 - 15:00	Crossfire: Rupture aneurysm, microsurgical or endovascular?	Dr. Sultan Alqahtani vs Dr. Hossam Aljehani
15:00 - 15:15	Crossfire: Idiopathic Intracranial Hypertension, stent, or shunt	Dr. Abdulrahman AlShamy vs Dr. Yasser Orz
15:15 - 15:20	Questions	
15:20 - 15:30	Break	
Session 3: Moderators: Dr. Khalid Bajunaid Dr. Naif Alharbi		
15:30 - 15:40	Current updates on MMA embolization	Dr. Bader Alehadib
15:40 - 15:50	Spinal vascular malformation treatment paradigm	Dr. Mohammed Aref
15:50 - 16:00	Advances in the neuro endovascular treatment	Dr. Abdulrahman Abdulwahab
16:00 - 16:30	Coffee	



17TH ANNUAL MEETING OF THE SAUDI ASSOCIATION OF NEUROLOGICAL SURGERY

DAY 1:

Sunday 5th March 2023

Session 4A: 16:30- 17:30

Hall A: (Flash Oral Presentations)

Chairpersons: Dr. Abdulrahman Sabbagh | Dr. Yahya H. Khormi | Dr. Mohammed Aref

Time	Topic	Presenter
16:30 - 16:35	A standardized imaging algorithm for the diagnosis of thoracolumbar posterior ligamentous complex injury in CT and MRI : a systematic review	Prof. Mohamed Ali
16:35 - 16:40	Management of post-operative cerebral vasospasm following skull base surgery: a systematic review of case reports and series	Dr. Alaa Turkistani
16:40 - 16:45	Awake craniotomy for tumours infiltrating the eloquent cortex: a systematic review of predictor factors of the optimal clinical outcomes	Dr. Jamal Abdullah
16:45 - 16:50	Cranial vault reduction cranioplasty for infantile mega-hydrocephalus: systemic review and technical report with example cases	Dr. Mahmoud Merdad
16:50 - 16:55	Radiofrequency thermoablation of the peripheral branches of trigeminal nerve versus the Gasserian ganglion for treating idiopathic trigeminal neuralgia: a systematic review and meta-analysis	Mr. Abdullah Alsharif
16:55 - 17:00	Prophylactic antiepileptic drugs for post-craniotomy seizures: a systematic review and meta-analysis	Mr. Abdullah AlMansour
17:00 - 17:05	The risks and benefits of intradural manipulation in adult Chiari type 1 malformation: a systematic review and meta-analysis study	Ms. Reem Almustafa
17:05 - 17:10	Does exogenous hormonal therapy affect the glioma risk in females? A systematic review and meta-analysis	Ms. Ghady Alfuridy
17:10 - 17:15	The efficacy of vestibular rehabilitation therapy for mild traumatic brain injury: a systematic review and meta-analysis	Mr. Ammar Aljabri
17:15 - 17:20	Equiosmolar hypertonic saline and mannitol for brain relaxation in patients undergoing supratentorial tumour surgery: a systematic review and meta-analysis	Mr. Ahmed Abdulhamid
17:20 - 17:30	Discussion	
17:30 - 18:30	General Assembly	
20:00	Gala Dinner (By Invitation)	



17TH ANNUAL MEETING OF THE SAUDI ASSOCIATION OF NEUROLOGICAL SURGERY

DAY 1: Sunday 5th March 2023

Session 4B: 16:30- 17:30

Hall B: (Flash Oral Presentations)

Chairpersons: Dr. Soha Alomar | Dr. Mohammed Abdoh | Dr. Othman AlHamad

Time	Topic	Presenter
16:30 - 16:35	Spontaneous non-aneurysmal subarachnoid haemorrhage: presentation and outcome in a tertiary hospital in Saudi Arabia	Dr. Abeer Alaglan
16:35 - 16:40	Intra-axial brainstem epidermoid cyst: review of the current literature and a proposal of anatomical classification	Dr. Mahmoud Fallatah
16:40 - 16:45	Safety landmarks for drilling the posterior wall of internal acoustic canal during surgery for vestibular schwannoma: anatomical study	Dr. Wafa Aldhafeeri
16:45 - 16:50	Demographics, risk factors, prognosis, and complications of meningioma: ten years' experience in tertiary centre	Dr. Yazed Alharbi
16:50 - 16:55	Effect of surgeon's level on time of exposure and closure in pterional approach	Dr. Fatima Fakhroo
16:55 - 17:00	Factors predicting postoperative hydrocephalus development in patients with posterior fossa tumours at a tertiary university hospital: a retrospective analysis	Mr. Khalid Alshuqayf
17:00 - 17:05	Factors associated with prolonged length of stay for elective neurosurgery patients: a retrospective study	Ms. Lamair Albakri
17:05 - 17:10	Diagnostic scales, questionnaires, and hand diagrams in comparison to nerve conduction studies in the matter of the diagnostic dilemma of carpal tunnel syndrome: a review	Dr. Abdulaziz Alahmed
17:10 - 17:15	Grisel's syndrome: management challenges of a 2-month-old baby	Prof. Maeen AlDamouni
17:15 - 17:20	Spontaneous Thrombosis of Large Internal Carotid Artery Aneurysm in a Neonate: case report and literature review	Dr. Turki Alshamdin
17:20 - 17:30	Discussion	
17:30 - 18:30	General Assembly	
20:00	Gala Dinner (By Invitation)	



17TH ANNUAL MEETING OF THE SAUDI ASSOCIATION OF NEUROLOGICAL SURGERY

DAY 2:

Monday 6th March 2023

Session 5: 08:00 - 10:30

Hall A: (Early Morning General Session)

Chairpersons: Prof. Yasser orz | Prof. Amro Alhabib | Prof. Abdulrahman Alanazi

Time	Topic	Presenter
08:00 - 08:20	Newer concepts in the treatment of spinal degeneration	Prof. Atul Goel
08:20 - 08:40	Spinal Intradural lesions	Prof. Marios Papadopoulos
08:40 - 08:50	Outcomes of central neurocytoma in Saudi Arabia: A nationwide multicentre study	Dr. Osama Khoja
08:50 - 09:00	Vagus nerve stimulation : experience from Prince Sultan Military Medical City	Dr. Abdulrahman Nazer
09:00 - 09:10	Predictors of survival and outcome in trauma patients presented with Glasgow Coma Scale score of 3 and fixed pupils	Dr. Sami Khairy
09:10 - 09:20	Decompression versus decompression and fusion for lumbar spondylolisthesis and stenosis; systematic review of randomized controlled trials over the last decade	Prof. Amro Al-Habib
09:20 - 09:30	A digital health intervention for concussion: development and clinical feasibility study	Dr. Aimun Jamjoom
09:30 - 09:50	Surgery for brainstem cavernomas anatomy, strategies techniques and results	Prof. Jacques Morcos (Virtual Presentation)
09:50 - 10:00	Discussion	
10:00 - 10:30	Prof Zain Alabedeen Jamjoom's Keynote Speech "Lessons of the Long Journey"	Prof. Ahmed Ammar (Introduced by Prof. A Jamjoom)
10:30 - 11:00	Coffee	



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DAY 2:

Monday 6th March 2023

Session 6A: 11:00 - 13:00

Hall A: (Spine Surgery)

Chairpersons: Dr. Khalid Siddiqui | Dr. Husam Alhabib | Dr. Abdulwahid Barnawi

Time	Topic	Presenter
11:00 - 11:10	When to order an MRI for neurologically intact patients with thoracolumbar fractures? A new perspective based on standardized CT interpretations	Prof. Mohamed Ali
11:10 - 11:20	Marker screw utilization for minimally invasive transforaminal lumbar interbody fusion promises and advantages	Dr. Mohammed Khashab
11:20 - 11:30	Cervical unilateral locked facet: surgical approaches and long-term outcome	Dr. Wael Alshaya
11:30 - 11:40	Percutaneous hydrodiscectomy surgery effectiveness in chronic back pain	Dr. Mohamed Elkhalfa
11:40 - 11:50	Smaller atlas lateral mass posterior wall in down syndrome patients: a morphometric analysis for surgically relevant parameters	Dr. Abdullah Alatar
11:50 - 12:00	Open door laminoplasty using titanium wires and lateral mass screws with spinous process splitting approach: a technical note and case series	Prof. Ahmed Foud Allam
12:00 - 12:10	Median cervical corpectomy for management of cervical spondylotic myelopathy due to Ossification of Posterior Longitudinal Ligament	Dr. Hisham Taher
12:10 - 12:20	The outcomes of flavectomy with foraminotomy versus hemilaminectomy with foraminotomy in patients with lumbar neurogenic intermittent claudication: comparative study in Sulaimani, Kurdistan Region, Iraq	Dr. Rawsht Abdalla
12:20 - 12:30	The association of Dallas Pain Questionnaire and positive findings in lumbar MRI in patients with chronic low back Pain: a cross-sectional study in Taif, Saudi Arabia	Dr. Ahmad Alharbi
12:30 - 12:40	Epidemiology of spinal cord injuries and their outcomes: a study at King Khalid Hospital (KKH), Najran, Saudi Arabia over the period of June 2018 to June 2019	Ms. Ahood Mahjari
12:40 - 12:50	Returning to work after traumatic spine fractures: current status in Saudi Arabia	Dr. Abdulrahman Alhabeeb
12:50 - 13:00	Discussion	
13:00 - 14:00	Lunch	



17TH ANNUAL MEETING OF THE SAUDI ASSOCIATION OF NEUROLOGICAL SURGERY

DAY 2:

Monday 6th March 2023

Session 6B: 11:00 - 13:00

Hall B: (Functional and General Neurosurgery)

Chairpersons: Dr. Ahmed Alferayan | Dr. Moajab Alzahrani | Dr. Jehad Ahmed

Time	Topic	Presenter
11:00 - 11:10	Microvascular decompression in trigeminal neuralgia: effective and safe treatment in 101 patients	Prof. Idir Moulla
11:10 - 11:20	Radiofrequency ablation for medically resistant trigeminal neuralgia: pros, cons and lessons learned	Prof. Ahmed Khani
11:20 - 11:30	How to avoid the neurosurgical complications of percutaneous techniques in the treatment of trigeminal neuralgia: a series of 1190 patients	Prof. Lakhdar Guenane
11:30 - 11:40	Microsurgical resection versus stereotactic radiosurgery for trigeminal neuralgia secondary to petroclival meningioma: a systematic review and meta-analysis	Prof. Hana Hallak
11:40 - 11:50	Stereotactic electroencephalography in Saudi Arabia: update and results of the first few cases	Dr. Ahmed Najjar
11:50 - 12:00	Epilepsy surgery in developing countries: how to initiate a multidisciplinary team with low resource setting	Dr. Ahmed Morsy
12:00 - 12:10	Modified techniques to reduce pneumocephalus during deep brain stimulation surgeries	Dr. Fatima Fakhroo
12:10 - 12:20	Progesterone increases the expression of opioid receptors on posterior horn of spinal cord in post neuropathic lesions in animal model	Prof. Oski Illiandri
12:20 - 12:30	Contribution of Saudi neurosurgeons to the international neurosurgical literature: a bibliometric analysis of trends over the last three decades	Prof. Abdulhakim Jamjoom
12:30 - 12:40	Perception of neurosurgery in minds of new generation, do we need to refurbish our image ?	Dr. Ibrahim Alnaami
12:40 - 12:50	Cerebral hydatid cysts: surgical management and long-term follow-up. A series of 42 cases	Dr. Mohamed Elyes Krifa
12:50 - 13:00	Discussion	
13:00 - 14:00	Lunch	
13:00 - 13:30	Special Presentation:(Virtual) The Revolution of Cadaver - Free Neurosurgical Simulation	Dr. Frederico Nicolosi (Introduction by Prof. A.Ammar & Prof. Franco Servadei)



17TH ANNUAL MEETING OF THE SAUDI ASSOCIATION OF NEUROLOGICAL SURGERY

DAY 2:

Monday 6th March 2023

Session 7A: 14:00 - 16:00

Hall A: (Vascular and Endovascular)

Chairpersons: Prof. Bassim Sheikh | Dr. Ibrahim Alnaami | Dr. Hossam AlJohani

Time	Topic	Presenter
14:00 - 14:10	When things go south in Angio suite, what a general neurosurgeon needs to know?	Dr. Ibrahim Alnaami
14:10 - 14:20	Impact of anatomical geometry of dominant A1 on deciding the side selected for the pterional approach to A Com aneurysm	Prof. Tamer Hassan
14:20 - 14:30	Transvenous embolization of brain AVM	Dr. Abdulrahman Alshamy
14:30 - 14:40	Geometrical characteristics of grade III Arteriovenous malformation determining the better result for endovascular treatment	Dr. Tamer Metwaly
14:40 - 14:50	Transarterial embolization of intracranial arteriovenous fistulas with large venous pouches in the form of venous outlet ectasia and large venous varix or aneurysm	Dr. Mohammed Deniwar
14:50 - 15:00	Protocol of management of spinal arteriovenous malformations and factors affecting the outcome: a single centre experience	Dr. Ahmed Sultan
15:00 - 15:10	Endovascular management of carotid cavernous fistula	Prof. Amr Abdelsamad
15:10 - 15:20	Unusual presentation of intracranial hypertension	Prof. Sherif Elwatidy
15:20 - 15:30	Endovascular management of recurrent chronic subdural hematomas	Dr. Abdulrahman Alshamy
15:30 - 15:40	The outcome of idiopathic intracranial hypertension management by dural venous sinus stenting in a single centre in Saudi Arabia	Dr. Sara Alaqel
15:40 - 16:00	Discussion	
16:00 - 16:30	Coffee	



17TH ANNUAL MEETING OF THE SAUDI ASSOCIATION OF NEUROLOGICAL SURGERY

DAY 2:

Monday 6th March 2023

Session 7B: 14:00 - 16:00

Hall B: Saudi Skull Base Society Session

Session A: (Vascular Injury in Skull Base Surgery)

Chairpersons: Prof. Yasser Orz | Dr. Abdulhadi Algahtani | Dr. Wisam Issawi

Time	Topic	Presenter
14:00 - 14:07	SANS Lab: The SANS lab and The Saudi Skull Base Society	Dr. Mohammed Bafaqeeh
14:06 - 14:11	SANS Lab: ICA proximal control in extended endoscopic endonasal approaches; our contribution (cadaveric analysis and case presentation)	Dr. Abdulaziz Almusa
14:12 - 14:17	SANS Lab: Simple artificial circuit mimicking ICA injury (cadaveric demonstration)	Dr. Hashem Al-Salman
14:18 - 14:25	SANS Lab: Surgical accessibility and middle fossa approach to the para-pharyngeal ICA segment cadaveric anatomical evaluation	Dr. Mohammed Bafaqeeh
14:26 - 14:33	ICA injury in endoscopic endonasal approaches	Dr. Abdulaziz Alkahtani
14:34 - 14:41	Outcome of ICA injury in skull base surgery	Dr. Basem Nour Elahi
14:42 - 14:49	SANS Lab: Modified Far lateral approach; a cadaveric study detailing its anatomy	Dr. Gmaan Alzahrani
14:50 - 15:00	Discussion	

Session B: (A guide to Functional Preservation)

Chairpersons: Prof. Saleh Baessa | Dr. Hussein Khshifaty | Dr. Ahmed AlOraidi

15:00 - 15:07	Crossfire: Planum sphenoidale meningiomas; expanded endoscopic endonasal approach	Dr. Abdurazaq Ajlan
15:08 - 15:15	Crossfire: Planum sphenoidale meningiomas; transcranial open skull base approach	Dr. Faisal Frarash
15:16 - 15:23	Crossfire: Planum sphenoidale meningiomas; eyebrow approach to skull base	Dr. Abdu Alkhayri
15:24 - 15:31	Discussion	
15:32 - 15:39	Posterior fossa	Dr. Ashwag Alqurashi
15:40 - 15:47	Management of CSF leak	Dr. Moajeb Alzahrani
15:48 - 15:56	Management of giant vestibular schwannomas	Dr. Mohammed Arif
15:57 - 16:00	Discussion	
16:00 - 16:30	Coffee	



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DAY 2:

Monday 6th March 2023

Session 8A: 16:30 - 17:30

Hall A: (Flash Oral Presentations)

Chairpersons: Dr. Mohammed Alkotbi | Dr. Abdulrahman AIDakkan | Dr. Ahmed Lary

Time	Topic	Presenter
16:30 - 16:35	Residual volume as a predicting factor for vestibular schwannoma recurrence	Dr. Basim Noor Elahi
16:35 - 16:40	Is the type and status of reconstruction post endonasal endoscopic surgery a predictor of CSF leak?	Ms. Hend Elmutawi
16:40 - 16:45	Grade and location of pneumocephalus predict postoperative CSF leak in endoscopic skull base surgery	Mr. Mohammed Ali Omar
16:45 - 16:50	Olfactory functional status following extended endoscopic endonasal approach for suprasellar meningiomas	Dr. Waseem Yaghmour
16:50 - 16:55	Success rate, prognostic factors, and safety evaluation of combined endoscopic third ventriculostomy and choroid plexus cauterizations in infantile hydrocephalous: a systematic review and meta-analysis	Mr. Ibrahim Albalkhi
16:55 - 17:00	Endoscopic choroid plexus coagulation for infantile mega-hydrocephalus: literature review with an example case	Mr. Mahmoud Merdad
17:00 - 17:05	The 100 most cited articles in endoscopic endonasal skull base surgery: a bibliometric Analysis	Dr. Sarah Basindwah
17:05 - 17:10	Unilateral biportal endoscopic spine surgery in Saudi Arabia: a single centre experience with 22 cases	Dr. Khaled Abdulshafi
17:10 - 17:15	Familial perimesencephalic subarachnoid haemorrhage: case report of twin brothers	Dr. Mowadah Ashgar
17:15 - 17:20	Outcome of aneurysmal subarachnoid haemorrhage in regard to CSF diversion dependency	Dr. Aldhoha Heddawi
17:20 - 17:30	Discussion	
17:40 - 18:30	Awards and Closing Remarks	



17TH ANNUAL MEETING OF THE SAUDI ASSOCIATION OF NEUROLOGICAL SURGERY

DAY 2:

Monday 6th March 2023

Session 8B: 16:30 - 17:30

Hall B: (Flash Oral Presentations)

Chairpersons: Dr. Taghreed AISinani | Dr. Abdulkarim AIRabie | Dr. Fawaz AIMotairi

Time	Topic	Presenter
16:30 - 16:35	Controversies among neurosurgeons in Saudi training programs in comparison to Canadian programs and its impact on residents	Dr. Maryam Alshanqiti
16:35 - 16:40	Neurosurgery residents satisfaction toward their Saudi training program: insights from a national survey	Ms. Jumanah Qedair
16:40 - 16:45	Factors affecting the choice of becoming a neurosurgeon in the western region of Saudi Arabia	Dr. Khalid Alghamdi
16:45 - 16:50	Factors affecting the choice of neurosurgery speciality among medical students and interns in the eastern province	Mr. Abdulelah Almousa
16:50 - 16:55	A bibliometric analysis of the top 100 cited articles for hemangioblastoma of the central nervous system, with a comprehensive review	Dr. Abdulaziz Hamzah
16:55 - 17:00	Bibliometric analysis of student-focused research in Saudi Arabia	Dr. Ahmed Sameer
17:00 - 17:05	Medical students awareness of personal digital assistant devices impact on their health	Dr. Ghayda Alotaibi
17:05 - 17:10	Medical management for cerebellar mutism syndrome following posterior fossa surgery: a systemic review	Dr. Alaa Turkistani
17:10 - 17:15	Primary intracranial sarcoma: a comprehensive systematic review with a case description	Mr. Khalid Alshuqayfi
17:15 - 17:20	Myeloid sarcoma involving the central nervous system as initial presentation of acute myeloid leukaemia	Mr. Badr Eyad Hafiz
17:20 - 17:30	Discussion	