



تجمع الرياض الصحي الثاني
Riyadh Second Health Cluster

19TH ANNUAL MEETING OF THE SAUDI ASSOCIATION OF NEUROLOGICAL SURGERY

AI: REVOLUTIONIZING NEUROSURGICAL FRONTIERS



VENUE



RIYADH, SAUDI ARABIA

PRE-CONFERENCE: 31ST JANUARY, 2025

CONFERENCE: 1ST - 2ND FEBRUARY, 2025



CME
ACCREDITED

POWERED BY
KonozRetaj

DAY 1:

Saturday, 1st Febraury, 2025

Session 1: 08:00 - 09:00

Hall A: Plenary Session 1

Chairpersons: Dr. Abdullah AlObaid

TIME	TOPIC	SPEAKER
08:00 - 08:20	The use of generative AI in clinical practice, research, medical and patient education	Dr. Fahad AlJandan
08:20 - 08:40	The future of AI assisted image analysis in functional Neurosurgery	Dr. Abbas Sadikot
08:40 - 08:50	Industrial session I	
08:50 - 09:00	Discussion	

Session 2: 09:00 - 09:30

Hall A: Keynote Speech (Dr. Khalaf Al Motaire's lecture)

Chairpersons: Dr. Faisal AlFarrash

TIME	TOPIC	SPEAKER
09:00 - 09:05	Speaker Introduction	Dr. Faisal AlFarrash
09:05 - 09:30	Translating finding from the bench to the clinic and back again	Dr. Michael Lim
09:30 - 10:00	Opening Ceremony and SANS Gold Medal Award	Dr. Fahd AlSubaie Dr. Abdulrazag Ajlan
10:00 - 10:30	Coffee Break	

DAY 1:

Saturday, 1st Februaury, 2025

Session 3: 10:30 - 12:00

Hall A: Plenary Session 2

Chairpersons: Dr. Basim Noor Elahi | Dr. Maqsood Ahmed | Dr. Abdullah AlObaid

TIME	TOPIC	SPEAKER
10:30 - 10:50	Augmented reality in Neurosurgery	Dr. Stephen Monteith
10:50 - 11:10	Governance of neurotechnology clinical privileges	Dr. Faisal Bin Suwaidan
11:10 - 11:30	Saudi health insurance market: Patient classification system	Dr. Essam Alshail
11:30 - 11:45	Medical malpractice Suits: How to avoid it?	Dr. Sami AlNassar
11:45 - 12:00	Judiciary - judicial circuits	Dr. Saleh AlKhunein
12:00 - 12:10	Discussion	
12:10 - 12:20	Industrial session	
12:20 - 01:00	Lunch Break	

DAY 1:

Saturday, 1st Februaury, 2025

Session 4A: 13:00 - 15:00

Hall A: General and Trauma

Chairpersons: Dr. Waleed AlMohammadi | Dr. Mohammed AlTalib | Dr. Abdulrahman AlEnazi

TIME	TOPIC	SPEAKER
13:00 - 13:10	C1-C2 traumatic subluxation	Dr. Jehad Ahmed
13:10 - 13:25	External validation of CT criteria for thoracolumbar PLC injury: A multi-center study	Dr. Mohammed Aly
13:25 - 13:35	Cranio-cervical dislocation associated with traumatic PICA dissection	Dr. Ahmed Aljishi
13:35 - 13:45	Trend of MIS in Spine Surgery	Dr. Mohammed AlShardan
13:45 - 13:52	Inflammatory disease mimics CNS tumours	Dr. Abdulhadi AlQahtani
13:52 - 14:00	Acute burst fracture, is kyphoplasty an option?	Dr. Motasem Khalil
14:00 - 14:05	Discussion	
14:05 - 14:15	Early cranioplasty in severe head injury outcomes	Dr. Hany Eldawoody
14:15 - 14:25	Novel approach to the anterior cervical spine	Dr. Abdulaziz AlZailaee
14:25 - 14:35	Head injury patients in the neurocritical care	Dr. Adel AlZahrani
14:35 - 14:45	Never give up	Dr. Moajeb AlZahrani
14:45 - 14:55	Traumatic superior sagittal sinus injury: challenges and approaches	Dr. Ahmed AlJishi
14:55 - 15:00	Discussion	
15:00 - 15:30	Coffee Break	

DAY 1:

Saturday, 1st Febraury, 2025

Session 4B: 13:00 - 15:00

Hall B: Spine Session

Chairpersons: Dr. Amro Al-Habib | Dr. Wael alShaye | Dr. Ahmed AlZahrani

TIME	TOPIC	SPEAKER
13:00 - 13:12	2030 Spine Vision	Dr. Abdulwahed Barnawi
13:12 - 13:15	Discussion	
13:15 - 13:27	Bibliometric analysis of medicolegal aspects in spine surgery	Dr. Abdulhadi Algahtani
13:27 - 13:30	Discussion	
13:30 - 13:42	Spinal injuries associated with other body injuries, prediction of the co-existence?	Dr. Mubarak Algahtany
13:42 - 13:45	Discussion	
13:45 - 14:57	Shared decision making in Spine surgery, a tool for better outcomes!	Dr. Fawaz Almotairi
13:57 - 14:00	Discussion	
14:00 - 14:12	UBE unilateral biportal endoscopic spine surgery: applications and how to start	Dr. Dhawi Alotaibi
14:12 - 14:15	Discussion	
14:15 - 14:27	Transforaminal Endoscopic Approach as a simple solution for what we were considering complex.	Dr. Hussam Jabri
14:27 - 14:30	Discussion	
14:30 - 14:42	The role of the spine surgeon in pain interventions	Dr. Rakan Bokhari
14:42 - 14:45	Discussion	
14:45 - 14:57	Kyphectomy in MMC patients	Dr. Sami Aleissa
14:57 - 15:00	Discussion	
15:00 - 15:30	Coffee Break	

DAY 1:

Saturday, 1st February, 2025

Session 4C: 13:00 - 15:00

Hall C: Complication Session

Chairpersons: Dr. Mohammed Aref | Dr. Wisam Elissawi | Dr. Mohammed bin Mahfooth

TIME	TITLE
13:00 - 15:00	Analysing neurosurgical adversities: cases and strategies
15:00 - 15:30	Coffee Break

DAY 1:

Saturday, 1st Febraury, 2025

Session 5A: 15:30 - 17:30

Hall A: Vascular session (Saudi Society of Neurological Interventions)

Chairpersons: Dr. Abdulrahman AlTurki | Dr. Sharif AlWatidi | Dr. Yasser Orz | Dr. Hosam AlJehani |
Dr. Khalid Bajunaid

TIME	TOPIC	SPEAKER
15:30 - 15:40	Greeting and Introduction to the SANS and SSNI Collaboration	Dr. Abdulrahman AlTurki

Session 1: Moderators (Dr. Sharif AlWatidi | Dr. Yaser Orz)

15:40 - 15:55	cSDH: Should we Rethink the Way we treat it ?	Dr. Mazen AlOtaibi
15:55 - 16:10	Wide Neck Aneurysm, Endovascular Options ?	Dr. Mohammed Basamh
16:10 - 16:25	Bypass Indications and Teqhnique	Dr. Steventh Monteth
16:25 - 16:35	Discussion	

Session 2: Moderators (Dr. Hosam Aljohani | Dr. Khalid Bajunaid)

16:35 - 16:50	Advances in Stroke Care: What's New and What Matters	Dr. Saeed Alzahrani
16:50 - 17:05	Behind the Headache: A Closer Look at Idiopathic Intracranial Hypertension	Dr. Abdulrazag Albilali
17:05 - 17:20	Pain and Spine Intervetion	Dr. Rakan Bokhari
17:20 - 17:30	Discussion	

DAY 1:

Saturday, 1st Febraury, 2025

Session 5B: 15:30 - 17:30

Hall B: Oncology

Chairpersons: Dr. Faisal Farrash | Dr. Nabeel AlNaghmoosh | Dr. Safwat Abouhashem

TIME	TOPIC	SPEAKER
15:30 – 15:45	Immunotherapy for brain tumors	Dr. Michael Lim
15:45 – 16:00	ERAS protocols in brain tumour surgery: can we use them in the era of healthcare transformation	Dr. Mahmood Taha
16:00 – 16:15	New Identity of meningioma and related implications	Dr. Maher Hassounah
16:15 – 16:30	Low grade glioma treatment strategies and standards	Dr. Ahmed Lary
16:30 – 16:45	Is the transcallosal safer in resection of 3 rd ventricular colloid cyst a single centre experience	Dr. Abdu Khayri
16:45 – 17:00	Central neurocytoma management approaches and challenges	Dr. Wisam Alissawi
17:00 – 17:15	Craniopharyngioma surgical management: optimizing patient outcome	Dr. Mohammed Ala'sha
17:15 – 17:30	Discussion	

DAY 1:

Saturday, 1st Febraury, 2025

Session 5C: 15:30 - 17:30

Hall C: Abstract session

Chairpersons: Dr. Naif AlOtaibi | Dr. Khalid AlTohainy | Abdullah AlObaid

TIME	TITLE	PRESENTER
15:30 - 15:40	A Machine Learning Approach for Stratifying ICTAL EEG Patterns and Optimizing Epilepsy Surgery Outcomes	Dr. Afnan Alkhotani

TIME	TOPIC	SPEAKER
15:40 - 15:50	Duration of Surgery as a Risk factor for Post-Endoscopic Skull Base Surgery Infection	Dr. Mohannad Mallat
15:50 - 16:00	Convolutional Neural Networks (CNN) In Skull Base Tumors: Using Machine Learning to Navigate the Best Surgical Approach	Dr. Maeen AlDamouni
16:00 - 16:10	Long Term Outcome of Craniotomy and Excision of Olfactory Groove Meningioma	Dr. Tariq Saleh
16:10 - 16:20	Robotic Surgery for Cerebral Arteriovenous Malformation	Dr. Biam A Saydo
16:20 - 16:30	Discussion	
16:30 - 16:40	The attitude of Psychiatrists toward Surgery for Psychiatric disorders in Saudi Arabia	Dr. Laila Alqahtani
16:40 - 16:50	Trigeminal Neuralgia Management in multiple Sclerosis Patients: Approaches and Outcomes	Ms. Ola Bin Shilash
16:50 - 17:00	Electrical cortical Mapping in Glioma Surgeries, Simplicity with Novelty	Dr. Muhammad Imtiaz
17:00 - 17:10	Electric & Magnetic brain stimulation: Revolutionizing neurological treatment	Dr. Imran Alam
17:10 - 17:20	Utilization of Artificial Intelligence and minimally Invasive Techniques in Spine Surgery	Dr. Mohammad Abu Kaff
17:20 - 17:30	Discussion	

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DAY 1:

Saturday, 1st Febraury, 2025

17:30 - 19:00

Hall A: Saudi Neurosurgical Society General Assembly

Chairpersons: Dr. Abdulrazag Ajlan

TIME	TITLE
17:30 - 19:00	Saudi Neurosurgical Society General Assembly All SANS members

End of Day 1

DAY 2:

Sunday, 2nd February, 2025

Session 6: 08:00 - 09:00

Hall A: Plenary Session 3

Chairpersons: Dr. Fahad AlOtaibi | Dr. Abdullah AlObaid | Dr. Ali Binsalamah | Dr. Fahmi AlSenani |
 Dr.Khaled AlMusrea

TIME	TOPIC	SPEAKER
08:00 - 08:20	AI Adoption in Health: A prospective look locally and globally	Dr. Mona AlMehaid
08:20 - 08:35	Panel discussion: Vorasidenib for Low Grade Glioma patients	TBD
08:35 - 08:50	Novel classification of Vertebrobasilar system	Dr. Mohammed Bafaqeeh
08:50 - 09:00	Discussion	

Session 7: 09:00 - 09:30

Hall A: Keynote speech - (Zain Alabedeen Jamjoom's lecture)

TIME	TOPIC	SPEAKER
09:00 - 09:05	Speaker introduction	Dr. Khalid AlMusrea
09:05 - 09:30	AI & Computation Reshaping Healthcare	Dr. Mahmoud AlYamany
09:30 - 09:40	Industrial Session III	
09:40 - 10:00	Coffee Break	

DAY 2:

Sunday, 2nd Febraury, 2025

Session 8: 10:00 -11:10

Hall A: Plenary Session 4

Chairpersons: Dr. Mohammed Alyousef | Dr. Abdulrazag Ajlan | Dr. Abdu Khairy

TIME	TOPIC	SPEAKER
10:00 - 10:30	Forum: Neurosurgical Publishing in Era of AI	Dr. Khalid Siddiqui Dr. Saleh Baessa Dr. Abdulrahman Sabbagh Dr. Mohammed Bafaqeeh
10:30 - 10:45	Gamma knife radiosurgery: Current concepts and controversies in the management of vestibular schwannomas	Dr. David Mathieu
10:45 - 11:00	Endoscopic Pituitary surgery: learning curve	Dr. Mahmoud Messerier
11:00 - 11:10	Discussion	

Session 9: 11:10 - 12:00

Hall A: Plenary Session 5

Chairpersons: Dr. Ahmed Lary | Dr. Abdulrahman Sabbagh | Dr. Mohammed Bafaqeeh

TIME	TOPIC	SPEAKER
11:10 - 11:25	Brainstem tumours in the era of molecules	Dr. Jean-Pierre Farmer
11:25 - 11:40	AI in Neuromodulation	Dr. Rafael Carbanaru
11:40 - 11:55	Nerve transfer for spinal cord injury	Dr. Zakry Ray
11:55 - 12:00	Discussion	
12:00 - 12:10	Industrial Session IV	
12:10 - 01:00	Lunch Break	

DAY 2:

Sunday, 2nd Febraury, 2025

Session 10A: 13:00 - 15:00

Hall A: Skull Base session

Chairpersons: Dr. Gmaan Alzahrani | Dr. Mohammed Alkutbi | Dr. Humood AlDahash

TIME	TITLE	PRESENTER
13:00 - 13:15	Craniopharyngioma: general review and updates	Dr. Mashael Al Marwani
13:15 - 13:30	Open surgery for Craniopharyngioma	Dr. Abdu Khayri
13:30 - 13:45	Endoscopic surgery for Craniopharyngioma	Dr. Abdulrazzg Ajlan
13:45 - 14:00	Radiation therapy in craniopharyngioma	Dr. Hosam AlAssaf
14:00 - 14:15	Discussion	
14:15 - 14:30	Art of endoscopic endonasal approach in clival chordoma resection	Dr. AShwag AlQurashi
14:30 - 14:45	Transoral approach for chordoma at Craniocervical junction	Dr. Faisal Farrash
14:45 - 15:00	Role of radiation therapy in management of chordoma	Dr. Ameen AlOmar
15:00 - 15:30	Discussion	

DAY 2:

Sunday, 2nd Febraury, 2025

Session 10B: 13:00 - 15:00

Hall B: Peripheral Nerve

Chairpersons: Dr. Fawaz AlOtaibi | Dr. Afnan AlKhotani | Dr. Ahmed AlOraidi

TIME	TITLE	PRESENTER
13:00 – 13:20	Electrodiagnostics in nerve injuries	Dr. Mazen AlOmar
13:20 – 13:35	Decision making in nerve injuries	Dr. Fawaz AlOtaibi
13:35 – 13:55	Obstetric brachial plexus injury	Dr. Mohammed Qattan
13:55 – 14:15	Electrical Stimulation for nerve regeneration	Dr. Zack Ray
14:15 – 14:35	Rewiring the Nerves, peripheral Nerve Surgeries with Neurophysiology Monitoring	Dr. Muhammed Imtiaz
14:35 – 14:50	Facial nerve reanimation	Dr. Zayed AlShaalan
14:50 – 15:00	Discussion	
15:00 – 15:30	Coffee Break	

DAY 2:

Sunday, 2nd Febraury, 2025

Session 10C: 13:00 - 15:00

Hall C: Abstract session

Chairpersons: Dr. Amal AlYahya | Dr. Turki AlEnazi | Dr. Mohammed Bafaqeeh

TIME	TITLE	PRESENTER
13:00 – 13:10	Advancing Surgical Precision: Extended Endoscopic Endonasal Approach for C1- C2 Traumatic and Inflammatory Lesions	Dr. Alessio Iacoangeli
13:10 – 13:20	Cervical spine involvement in rheumatoid arthritis: a relationship between clinical manifestations and magnetic resonance imaging findings	Dr. Ahmad Albeshri
13:20 – 13:30	The Efficacy of Topical Vancomycin in Patients Went for Craniotomy to Reduce the Risk of Surgical Site Infection: A Systematic Review and Meta-Analysis	Dr. Abdulrahman Alotaibi
13:30 – 13:40	Sacroiliac Joint Fusion: A Cohort Study Comparing Minimally Invasive Navigation-Assisted and Robotic-Guided Techniques	Dr. Mohamad Bakhaidar
13:40 – 13:50	Increased Spinal Cord Stiffness with Extramedullary Compression, Quantitative Evaluation Using Intraoperative Ultrasound Elastography, and Development of Elasticity Index	Dr. Ghaida Alawaji
13:50 – 14:00	Discussion	
14:00 – 14:10	Anatomical Insights into the V2 Segment of the Vertebral Artery: A Cadaveric Study on Measurements and Surgical Implications for Safe ACDP Procedures	Dr. Ghaida Aljdhaa
14:10 – 14:20	Superior and Middle Cluneal Nerve Entrapment: A Systematic Review of clinical features, diagnostic workups, surgical outcomes and prognosis of 236 cases.	Dr. Mohammed Almannaa
14:20 – 14:30	Bio mechanical Outcomes of Thoracic Spine Decompression Alone Versus Decompression with Fixation: A Finite Element Analysis Study	Mr. Osama Alkulli
14:30 – 14:40	Endoscopic Transclival Approach to Brainstem Cavernomas: Our Preliminary Experience and The Role of Diffusion Tensor Imaging with Tractography	Dr. Alessio Iacoangeli
14:40 – 14:50	Incidence, Clinical Characteristics and Outcome of Intracranial Brain Abscess among Pediatric Patients in Saudi Arabia: multi-center study	Dr. Hassan Alturaiki
14:50 -15:00	Discussion	

DAY 2:

Sunday, 2nd February, 2025

Session 11A: 15:30 - 17:30

Hall A: Paediatric session

Chairpersons: Dr. Abdulelah Alluhaiby | Dr. Rami Alshammrani | Dr. Ayman AlBanyan

TIME	TOPIC	SPEAKER
15:30 – 15:45	Are EVDs still needed in babies?? Ventriculo-subgaleal shunt is the trick !	Dr. Ibrahim Alnamie
15:45 – 16:00	Chiari 1 malformation: complicate the simple or simplify the complex	Dr. Othman Alhammad
16:00 – 16:15	The delayed, the complicated and the unusual: Personal series of surgically treated complex craniosynostosis	Dr. Tariq Algared
16:15 – 16:30	Fighting against the odds: Pediatric brain tumor surgery and the struggle for comprehensive care	Dr. Yahya Khurmi
16:30 – 16:45	Calvarial DISTRACTION Osteogenesis:concept and applications	Dr. Abdulrazag Alojjan
16:45 – 17:00	Intraventricular hemorrhage of prematurity should we intervene early ?	Dr. Maryam Alotaibi
17:00 – 17:15	Seizure outcome in Pediatric Moyamoya Disease after indirect revascularization	Dr. Abdullah Alramadan
17:15 – 17:30	Entrapped 4 th ventricle: Challenges highlight and Treatment options	Dr. Fehaid Habalrih
15:00 – 15:30	Coffee Break	

DAY 2:

Sunday, 2nd Febraury, 2025

Session 11B: 15:30 - 17:30

Hall B: Functional and epilepsy

Chairpersons: Dr. Andrew Parrent | Dr. Ahmed AlNajjar | Dr. Soha Alomar

TIME	TITLE	PRESENTER
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First session: Functional Neurosurgery.

15:30 - 15:50	Novel and classical approaches to the thalamus for tremors	Dr. Abbas Sadikot
15:50 - 16:00	Psychiatric disorders neuromodulation, luxury, or basic need?	Dr. Ahmed Alkhani
16:00 - 16:10	Machine brain interface	Dr. Faisal Alotaibi
16:10 - 16:20	Pain neuromodulation recent advances	Dr. Abdulrahman Nazer
16:20 - 16:30	Discussion	

Second session: Epilepsy surgery.

Dr. Abbas Sadikot | Dr.Ibrahim AlThobaiti | Dr. Abdulrahman Sabbagh

16:30 - 16:50	Therapeutic Brain stimulation for epilepsy	Dr. Andrew Parrent
16:50 - 17:00	Epilepsy surgery Failure overview	Dr. Saleh Baeesa
17:00 - 17:10	Vertical hemispherectomy	Dr. Fahad Alotaibi
17:10 - 17:20	SEEG Complications in the literature	Dr. Fawaz Alotaibi
17:20 - 17:30	Discussion	

DAY 2:

Sunday, 2nd Febraury, 2025

Session 11C: 15:30 - 17:30

Hall C: Abstract session

Chairpersons: Dr. Ayman Bahatheq | Dr. Abdulaziz AlMubarak | Dr. Basim Noor Elahi

TIME	TITLE	PRESENTER
15:30 - 15:40	Volume embolization ratio of coiled cerebral aneurysms, does awake technique affect the results?	Dr. Hany Eldawoody
15:40 - 15:50	Preventive Pial Synangiosis Before Bone Marrow Transplantation Mitigates Central Nervous System Complications in Sickle Cell Disease with MoyaMoya Syndrome in a Pediatric Population	Dr. Maryam Enani
15:50 - 16:00	Combined "Hybrid" Open Surgical and Endovascular Embolization of Complex Dural Arteriovenous Fistulas	Dr. Mohamed Elhammady
16:00 - 16:10	Prevalence and Correlation of Psychological Symptoms in Newly Diagnosed Brain Tumor Patients: A Cross-Sectional Study	Dr. Waseem Alharthi
16:10 - 16:20	Difference in Protein Expression (MMP2 and CXCL1) Within Metastatic Tumors to The Brain	Dr. Sarah Basindwah
16:20 - 16:30	Discussion	
16:30 - 16:40	Advanced Magnetic Resonance Imaging for Glioblastoma: Oncology-Radiology Integration	Dr. Abdulrahim Alrasheed
16:40 - 16:50	Dynamic interplay between corticosteroid treatment and the role of SRC-1 gene dysregulation in the progression of WHO-Grade 4 Astrocytoma	Dr. Maher Kurdi
16:50 - 17:00	Targeting Intracranial Tumours with a Combination of Gene Therapy and Chemotherapy and an approach for Post-surgical Brain Tissues Transplantation.	Dr. Abdulhamid Fatani
17:00 - 17:10	Primarily Data: Incidence, Clinical Characteristics and Outcome of Adult Brain Abscesses in Saudi Arabia: A Multi-center Study	Dr. Hassan Alturaiki
17:10 - 17:20	Gender Differences in Cranial Bone Thickness and Surgical Outcomes in Epidural Hemorrhage: A Saudi Arabian Retrospective Cohort Study in King Fahad General Hospital, Jeddah.	Ms. Lama Alghamdi
17:20 - 17:30	Trends And Insights in Prone Lateral Approach for Spine Surgery: A Bibliometric Analysis	Dr. Mohamad Bakhaidar
17:30 - 17:40	Discussion	

End of Day 2