



GLASGOW NEURO

Neurosurgery/Neurology/Clinical Neuroscience

11TH ANNUAL NEURO *Conference*

18th November 2023

Sir Charles Wilson Building and Glasgow University Union

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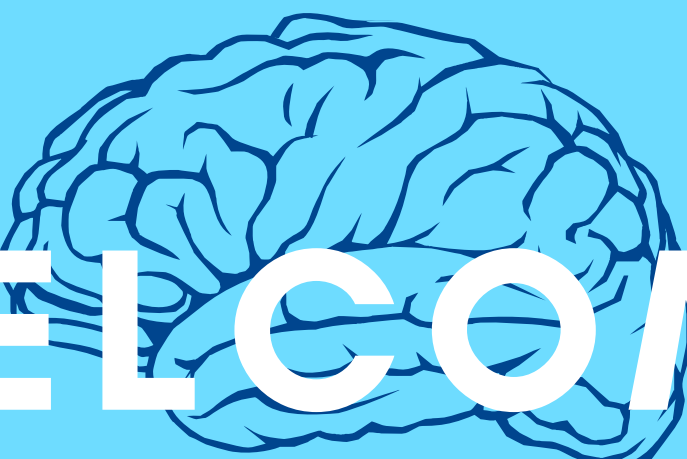


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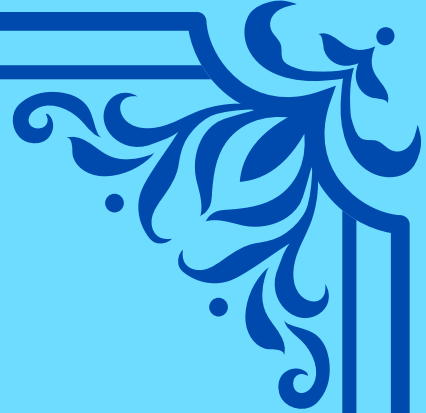
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WELCOME



It is with great pleasure that I welcome you to the landmark *11th Anniversary* Glasgow Neuro Conference at the University of Glasgow; Sir Charles Wilson Building and Glasgow University Union.

Following the successes of previous years, our committee have once again secured a number of exciting speakers for what promises to be a fantastic event filled with inspiring talks that explore the fields of neuroscience, neurology, and neurosurgery. We deeply appreciate the time our speakers have taken out of their busy schedules to talk at our conference this year. We are also very excited to have secured four interactive workshops to simulate skills in a safe and controlled environment.

Today's event would not have been possible if it were not for our generous sponsors. We are extremely grateful to these organisations, particularly *Brainlab*, *Delta Surgical*, *Medtronic* and *BBraun* for the support they have given to our society, which is crucial in assisting our committee in organising and hosting an event of this magnitude.

Thanks must also be given to the neurosurgical and neurological faculty from the Institute of Neurosciences in Glasgow for taking the time to make this event a success. I would like to personally thank our honorary presidents Mr Likhith Alakandy and Dr Amy Davidson for their unending advice, support, and enthusiasm.

Finally, on behalf of the Glasgow Neuro committee, we would like to thank you for coming. We hope that our event will provide you with a useful opportunity to explore neurology, neurosurgery, and clinical neuroscience as a career; but most importantly we hope this event will give you the necessary exposure, helpful guidance, and endless inspiration needed to shape your future legacy.

Please remember to complete the post-conference evaluation form in order to receive your certificate of attendance.



Attika Chaudhary
iBSc (Med. Sci) Hons
Glasgow Neuro President 2023/24



11TH ANNUAL NEURO CONFERENCE

Programme

08:30 – 09:00

REGISTRATION

09:00 – 09:10

WELCOME AND INTRODUCTIONS

09:10 – 09:55

DR INGRID HOERITZAUER

An overview of Functional Neurological Disorders

09:55 – 10:40

DR DAVE ANDERSON

*Learning from mistakes: genotyping, phenotyping
and the origin of humans*

10:40 – 11:10

BREAK - POSTER AND SPONSORS EXHIBITION

11:10 – 11:55

PROFESSOR SUZANNE THARIN

My journey through neurosurgery and research

11:55 – 12:40

DR CRAIG HEATH

*The challenges (and opportunities) of caring
for people living with epilepsy*

12:40 – 13:40

LUNCH - POSTER AND SPONSORS EXHIBITION

13:40 – 16:15

WORKSHOPS

Workshop 1 - Craniotomy and Burr hole

Workshop 2 - Shunt and telemetric pressure

Workshop 3 - Spine pedicle screw placement

Workshop 4 - ICP monitoring and EVD

16:15 – 16:30

BREAK - POSTER AND SPONSORS EXHIBITION

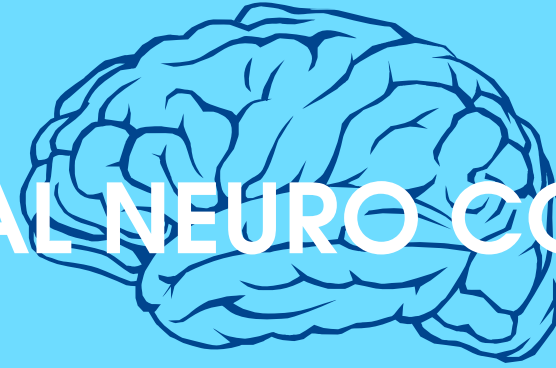
16:30 – 17:15

PROFESSOR RICHARD MOSER

*Global neurosurgery and gene therapy
for neurodegenerative diseases*

17:15 – 17:30

CLOSING REMARKS AND PRIZES



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DR INGRID HOERITZAUER

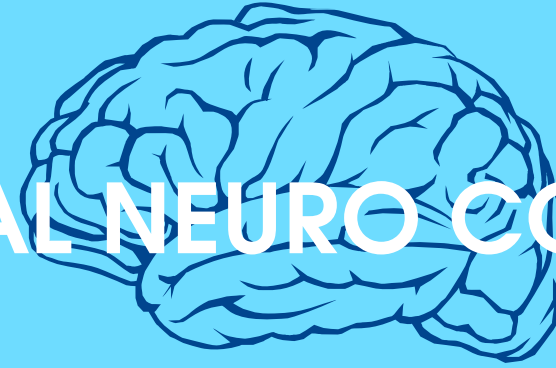
Consultant Neurologist at University of Glasgow



An overview of Functional Neurological Disorders

Dr Hoeritzauer completed her undergraduate degree at Queen's university in Belfast with a semester in Humboldt University in Berlin and an intercalated degree in psychology at UCL. She undertook her neurology training in Belfast and Edinburgh including a PhD looking at the Clinical Features and Prognosis of Scan-negative Uro-Neurological Disorders. She currently works in Edinburgh as a consultant neurologist; half time general neurologist, half time traumatic brain injury rehabilitation consultant. Dr Hoeritzauer has an interest functional neurological disorders, particularly uro-neurological disorders and has recently been awarded an NRS Fellowship. She is a principal of the Functional Neurological Disorders Research Group along with Professors Jon Stone and Alan Carson and Dr Laura McWhirter





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DR DAVE ANDERSON

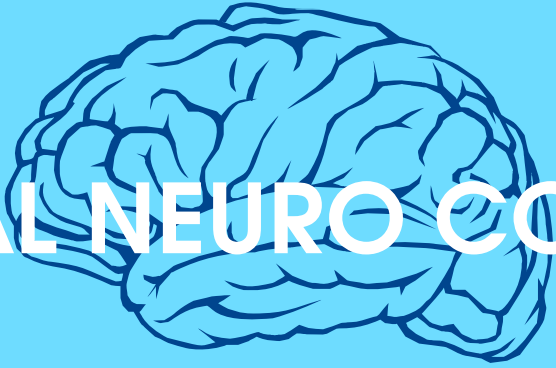
Consultant Neurologist at QEUH and Honorary Senior Lecturer



Learning from Mistakes: Genotyping, Phenotyping and Origins of Humans

Dr. David Anderson completed his medical training at the University of the Witwatersrand in Johannesburg, where he developed an interest in movement disorders. Dr. Anderson went on to complete a neurology fellowship through the South African Colleges of Medicine and a fellowship in electrophysiology at the Cleveland Clinic. Upon returning to South Africa, he became Clinical Lead for the Johannesburg Deep Brain Stimulation program. In 2006, he established the first African Huntington's disease clinic. Dr. Anderson obtained his Master's degree in 2008 and completed his PhD in neurogenetics in 2019, focusing his research on rare genetic movement disorders. In 2021, Dr. Anderson was appointed to the Queen Elizabeth University Hospital in Glasgow as Clinical Lead for the Huntington's Disease neurology service. He continues to have an academic appointment at the University of the Witwatersrand and the University of Glasgow. Throughout his career, Dr. Anderson's research has focused on translating genetic insights into improved diagnosis and care for patients with complex neurological conditions.





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PROFESSOR SUZANNE THARIN

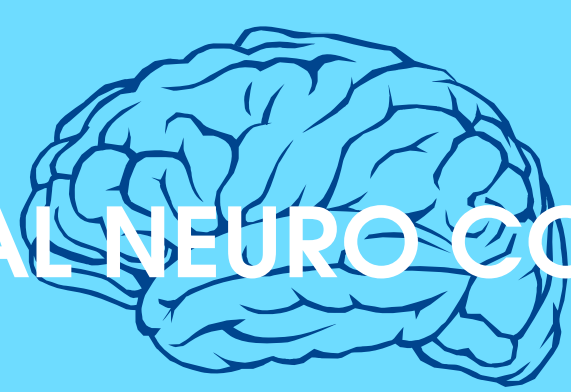
Associate Professor of Neurosurgery, Stanford University



My journey through neurosurgery and research

Suzanne Tharin, MD PhD joined the faculty at Stanford University in 2012 as an Assistant Professor of Neurosurgery. Following her undergraduate degree in Physiology and a Master's degree in Anatomy and Cell Biology at the University of Toronto, Professor Tharin completed a PhD in Genetics at Cold Spring Harbor Laboratory and SUNY Stony Brook. She received her MD from Columbia University and then completed her neurosurgery residency at the Brigham and Women's Hospital/Children's Hospital Boston/Harvard Medical School program. She subsequently completed a clinical fellowship in complex spine surgery at the Cleveland Clinic. Her research program encompasses the molecular controls over cortical neuronal development, spinal cord injury, and regenerative strategies for spinal cord repair, including stem cell-based strategies. As a practicing neurosurgeon at the Palo Alto VA and Stanford University Hospital, Professor Tharin is dedicated to translating an understanding of neural development into regenerative strategies for the treatment of spinal cord injury.





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DR CRAIG HEATH

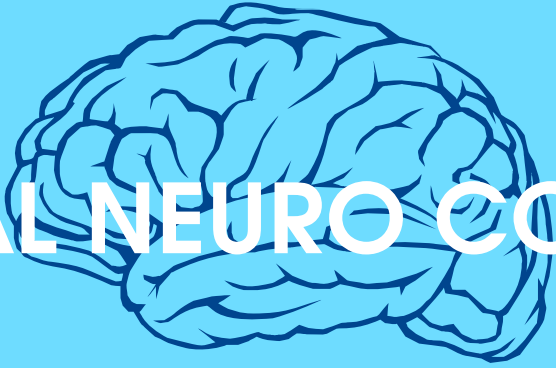
Consultant Neurologist & Honorary Senior Clinical Lecturer



*The challenges (and opportunities) of caring
for people living with epilepsy*

Dr Craig Heath is a consultant neurologist and honorary senior lecturer at the University of Glasgow. Dr Heath's research is based on how we can use routine health data to improve care in people living with epilepsy. Principal investigator - Scottish Government funded "Scottish Epilepsy Register" Project. National lead for UK and Ireland pregnancy Register.





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PROFESSOR RICHARD MOSER

*Professor of Neurological Surgery
University of Massachusetts Chan School of Medicine
Horae Gene Therapy Centery*

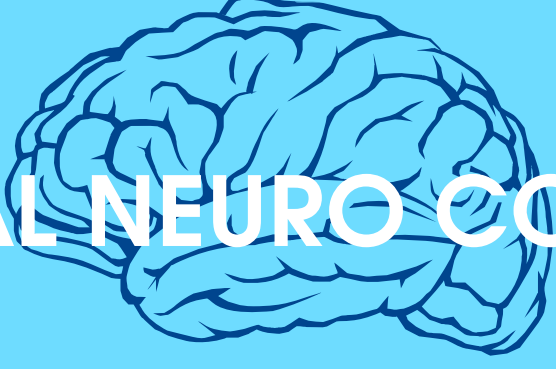


KEYNOTE SPEAKER

Professor Moser is currently an Attending Neurosurgeon at UMass-Memorial, a large academic medical center and Professor of Neurological Surgery and Radiation Oncology at the University of Massachusetts Medical School. He has held several administrative and leadership positions, most recently retiring as Chairman of the Department of Neurological Surgery.

His current translational research effort is in support of the RNA Therapeutics Institute's RNAi-based Gene Therapy Group for Neurodegenerative Diseases and the development in animal models of new platforms for delivery of large molecules into brain as we turn our laboratory discoveries into bedside solutions. His interest in brain tumor therapeutics dates to his work in immunotherapy while a resident at the University of Minnesota and then at the MD Anderson Cancer Center.





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WORKSHOPS



CRANIOTOMY AND BURR HOLE

Hosted by Medtronic

Embark on a transformative learning experience with our Craniotomy and Burr Hole Workshop, where medical professionals delve into the intricacies of neurosurgical procedures. This hands-on workshop combines theoretical knowledge with practical skills, offering participants a unique opportunity to master the art of craniotomy and burr hole techniques. Guided by experts in the field, attendees will gain insights into the latest advancements in neurosurgery, fostering a deeper understanding of patient care and surgical precision. Elevate your expertise and surgical proficiency in this immersive workshop, shaping the future of neurosurgical excellence.

Medtronic

Engineering the extraordinary

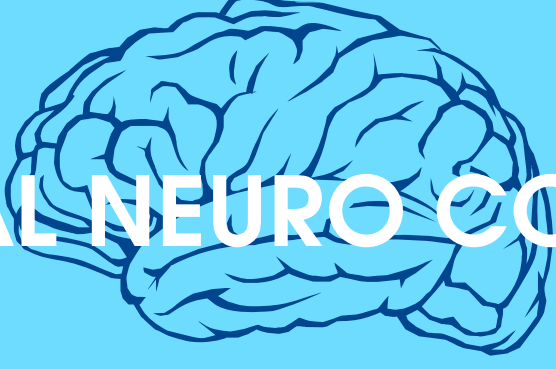
ICP MONITORING AND EVD

Hosted by Delta Surgical

Dive into the forefront of neurocritical care with our ICP (Intracranial Pressure) and EVD (External Ventricular Drain) Workshop. Through a blend of insightful lectures and hands-on simulations, participants will acquire comprehensive knowledge and practical skills crucial for effective neurocritical care. Led by leading experts in the field, this workshop offers a unique opportunity to master the intricacies of ICP monitoring and EVD placement, ensuring optimal patient outcomes.

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WORKSHOPS



SHUNTS AND TELEMETRIC PRESSURE MONITORING

Hosted by Bbraun

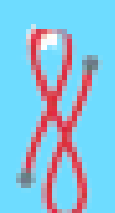
With our Shunt and Telemetric Pressure Workshop you can gain hands on experience in hydrocephalus management. Led by Bbraun, participants will navigate through comprehensive lectures and immersive practical sessions, gaining proficiency in the delicate techniques of shunt placement and the application of telemetric pressure monitoring.

B | BRAUN

SPINE PEDICLE SCREWS

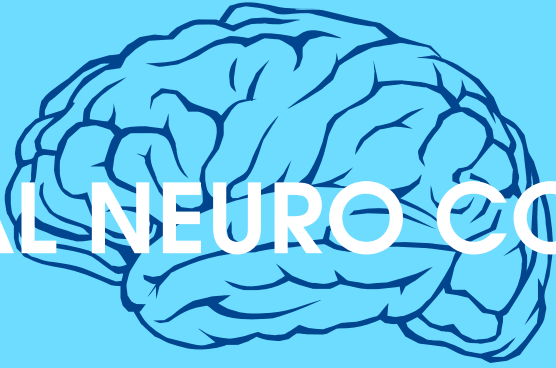
Hosted by DepuySynthes

Embark on a journey into the intricate world of spinal surgery with our Spine Pedicle Screw Placement Workshop. Tailored for medical professionals seeking mastery in advanced spine procedures, this immersive workshop combines cutting-edge knowledge with hands-on training. Led by accomplished experts in spinal surgery, participants will explore the nuances of pedicle screw placement through interactive sessions. This workshop offers a unique opportunity to refine skills, ensuring precision in spinal instrumentation and enhancing outcomes for patients.



DePuy Synthes





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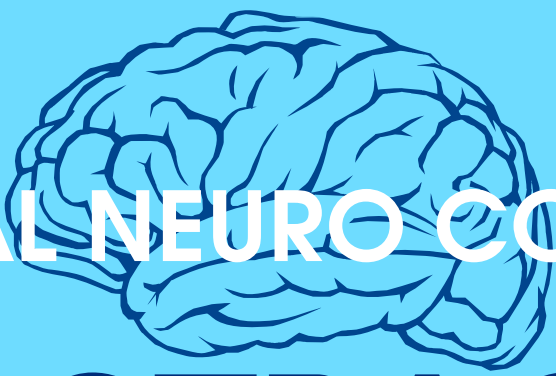
POSTER PRESENTATIONS



Glasgow Neuro are honoured to be supported by *Surgical Neurology International* where our conference proceedings will be published. We would like to express our gratitude to Professor James Ausman (Founder and Emeritus Editor in Chief), Professor Nancy Epstein (Editor-in-Chief), and Mr Jim Cook (Managing Editor) for providing us with this opportunity.

Surgical Neurology International® (SNI) is an open access, Internet-only journal that publishes the latest developments in the field of neurosurgery and related clinical and basic neurosciences. SNI is an independent journal not affiliated with any medical society or organization. SNI is free to neuroscientists as well as to the general public, in the interest of medical education and the advancement of science; as such, its articles can be downloaded by anyone. The highest goal of SNI is to arrive at truth by the scientific method, with integrity in its published scientific research, and by the defense of the interests of patients worldwide. In SNI, the patient-doctor relationship is paramount; patients come first, ahead of third-party payers, ahead of the medical and pharmaceutical industries, and ahead of any interests of the State.





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ABSTRACTS

Anatomical Measurement of the Optic Chiasm: a Systematic Review

Sujashree Yadala Venkata¹, Brian M. Ou Yong, Jonathan Kong Sing Huk, Mustafa El Sheikh, Samih Hassan

Expression of Atypical Chemokine Receptor 3 in Wild Type Mouse Brain

Syed Danyaal Anzar with special thanks to Professor Johnathan Cavanagh, Jaedeok Kwon and Rhona McGonigal

Neurofibromatosis-Associated Cauda Equina Syndrome: A Complex Case of Spinal Tumour Compression and Surgical Intervention

Brian M. Ou Yong

Is Topical Vancomycin Effective in the Prevention of Surgical Site Infections in Patients undergoing Spinal Surgery?

Rohan Gupta

Neuroanatomical Markers of Hearing Loss in Alzheimer's Disease

Debora Mucida Alvim

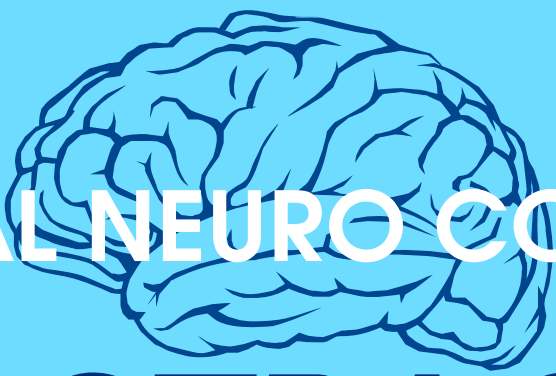
Epidemiology and 5-year outcome of operated cases of intracranial meningioma in a tertiary care center in Nepal in the last 10 years

Shodip Shrestha, Divya Karmacharya, Pratyush Shrestha

Neurobehavioural Side Effects of Levetiracetam in the Brain Tumour Population

Eva Szilagyi-Nagy





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ABSTRACTS

Treatment of Hyponatraemia Following an Aneurysmal Subarachnoid Haemorrhage: Clinical Algorithm

Bindu Shree Muddam, Raziqin Sabri, Mohamed Draz, Ahmed Elbelkasy, Ibrahim El-Maadawi,
Edward Jerome St George

Migraine (AUDIT)

Sherin Mubarak

Hemispheric Surgery: A Narrative Review of the Current State of Hemispherectomy and Hemispherotomy for Paediatric Epilepsy in Lower-Middle Income Countries (LMICs)

Kevin Lee Boon Chun, Rishabh Suvarna

A Systematic Review of the Therapeutic Potential of FAAH Inhibitors as an Analgesic Option for Treatment of Inflammatory Pain

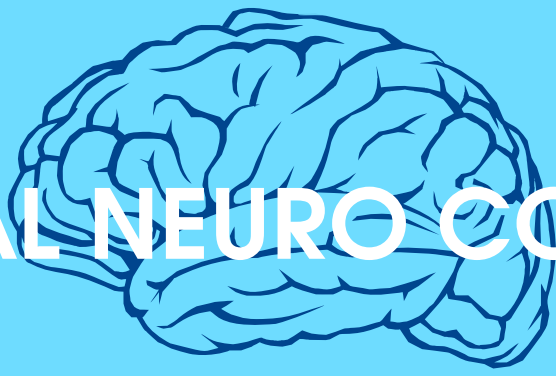
Aaida Eghbal, DP McLaughlin

Standard Anatomical Measurement of the Optic Chiasm in Different Age Groups and Genders: A preliminary study.

Jonathan Kong Sing Huk, Sujashree Yadala Venkata, Brian M. Ou Yong, Mustafa El-Sheikh,
Samih Hassan



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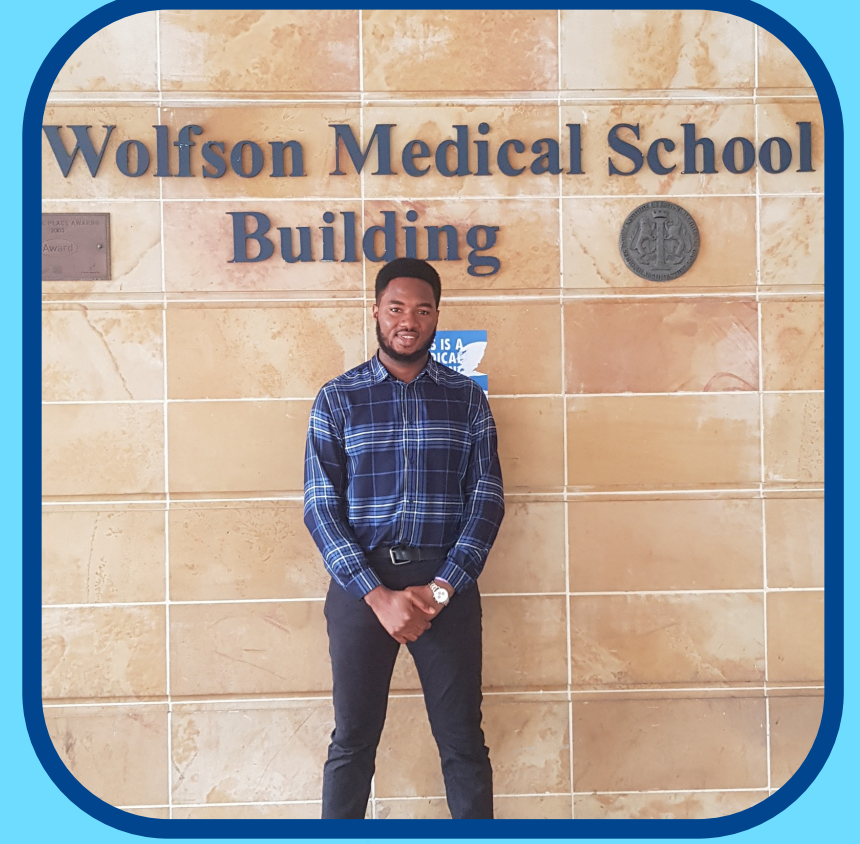
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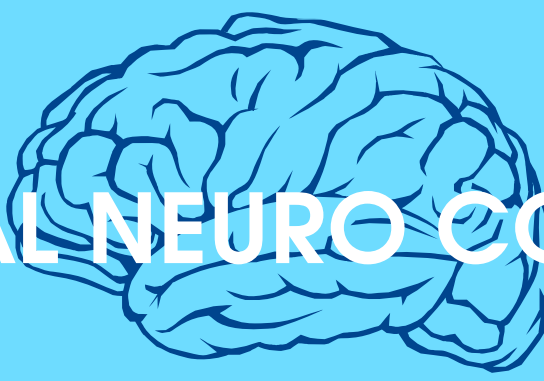
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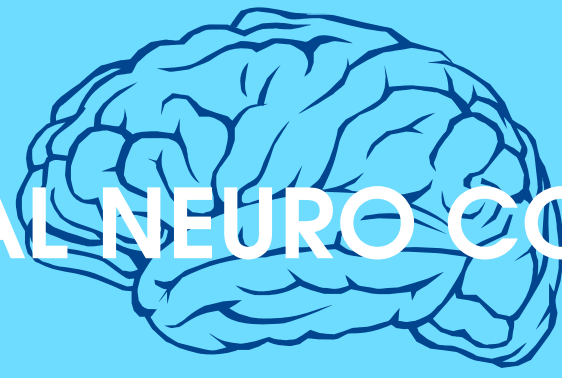
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Honorary President for Neurology
Consultant Neurologist, Institute of
Neurological Sciences, QEUH, Glasgow, UK



MR LIKHITH ALAKANDY

Honorary President for Neurosurgery
Consultant Neurosurgeon, Institute of
Neurological Sciences, QEUH, Glasgow, UK



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A large, vibrant 3D visualization of brain data, likely a tractogram, dominates the upper half of the image. It shows a dense network of colorful fibers (blue, pink, purple, and yellow) radiating from a central point, set against a dark background. The fibers are illuminated with a bright, glowing effect, particularly on the right side where they appear to be part of a larger, curved structure.

Free your Vision

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Brainlab Mixed Reality Viewer frees patient data from the 2D screen and brings it in hyper-realistic 3D into the room. Learn more at brainlab.com/mixed-reality.



Codman® CereLink™
ICP monitoring system



Scan to learn more

CereLink™ provides continuous ICP burden data^{1,2} & minimal drift up to 30 days.

¹ Vik et al, Relationship of "dose" of intracranial hypertension to outcome in severe traumatic brain injury, J Neurosurg 109:000-000, 2008.
² Güiza et al; Visualizing the pressure and time burden of intracranial hypertension in adult and paediatric traumatic brain injury. Intensive Care Med. 2015;41(6):1067-76.

Indications CereLink™ Monitor: The ICP Monitor is intended for use as an interface between compatible strain gauge type pressure transducers and standard physiological pressure monitoring systems. The ICP Monitor is also intended for use as an independent pressure monitor for displaying the mean, systolic and diastolic numeric values of a physiologic pressure waveform in the absence of an external patient monitor. Contraindications CereLink™ Monitor: The ICP Monitor is contraindicated for use in a Magnetic Resonance (MR) environment. Refer to the ICP Sensor IFU for MR environment use. Use of the kit is indicated when direct intracranial pressure (ICP) monitoring is required. The kit is indicated for use in both subdural and intraparenchymal pressure monitoring applications.

Availability of these products might vary from a given country or region to another, as a result of specific local regulatory approval or clearance requirements for sale in such country or region.

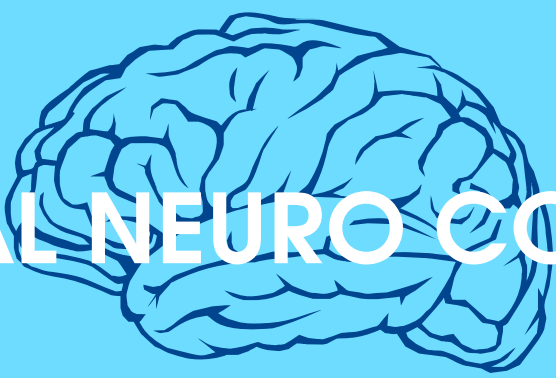
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NOTES

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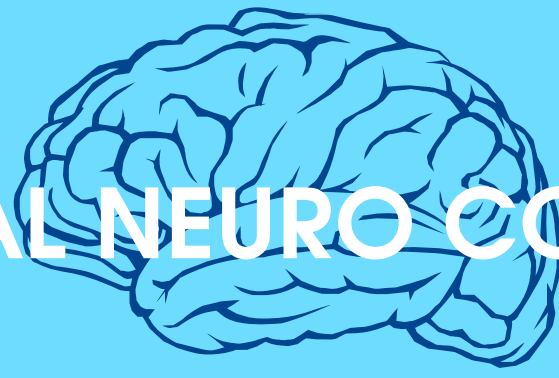




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