

14th Annual Ottawa Neurosurgery Review Course Schedule
 March 26 – April 2, 2026
 Course Location – The Marconi Centre – 1026 Baseline Road, Ottawa

Thursday March 26th

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| 07:00 – 07:40 | Registration and Breakfast | |
| 07:40 – 08:00 | Introductory Remarks Q&A | Dr Safraz Mohammed Dr. Charles Agbi Dr. Fahad Alkherayf |
| 08:00 – 08:40 | Cranial Meningiomas Learning Objectives By the end of this presentation, participants will be able to: <ul style="list-style-type: none"> • Identify key anatomical structures relevant to the surgical management of cranial meningiomas. • Select an appropriate surgical approach based on tumour location and surrounding anatomy. • Describe intraoperative strategies to minimize complications during meningioma surgery. | Dr. Almunder Algird |
| 08:50 – 09:30 | Management of Common CNS Infections and Surgical Treatment Learning Objectives By the end of this presentation, participants will be able to: <ul style="list-style-type: none"> • Identify the most common infections affecting the central nervous system. • Describe indications for surgical intervention in CNS infections. • Apply clinical and imaging findings to guide treatment decisions | Dr. Charles Agbi |
| 09:40 – 10:20 | Epidemiology, Genetics, Molecular Biology of Intracranial Aneurysms. Management of Unruptured Intracranial Aneurysms. Learning Objectives By the end of this presentation, participants will be able to: <ul style="list-style-type: none"> • List genetic syndromes associated with the development of intracranial aneurysms. • Identify molecular and histological features involved in aneurysm pathogenesis. • Recognize aneurysm characteristics that influence the risk of rupture. | Dr. Alim Mitha |
| 10:20 - 10:30 | BREAK | |

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| 10:30 – 11:10 | <p>Surgical Management of Ruptured Intracranial Aneurysms</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Explain the rationale for treatment of ruptured intracranial aneurysms. • Select appropriate surgical or endovascular treatment strategies based on clinical and anatomical factors. • Identify risks associated with aneurysm treatment and strategies to mitigate these risks. • Describe the role of multidisciplinary care in aneurysm management. | Dr. Alim Mitha |
| 11:10- 11:50 | <p>Chordomas and Chondrosarcomas: Current Management</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Differentiate between the pathological features of chordomas and chondrosarcomas. • Describe the role of multidisciplinary care in their management. • Apply oncologic surgical principles to the resection of skull base chordomas and chondrosarcomas. • Identify surgical approaches used in the management of these lesions. | Dr. Idara Edem |
| 11:50- 12:30 | <p>Anatomy and physiology of functional neurosurgery targets</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Describe the anatomy and physiology of the basal ganglia, limbic system, and cerebellum relevant to functional neurosurgery. • Illustrate key limbic system pathways, including the hippocampal formation, Papez circuit, and amygdala. • Explain the role of these neural circuits in memory, emotion, and neurosurgical intervention. | Dr. Zelma Kiss |
| 12:30-13:40 | LUNCH | |
| 13:40- 15:00 | <p>HOT SEAT Sessions</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Analyze common neurosurgical cases to determine appropriate diagnosis, investigation, and management strategies. | Dr. Alim Mitha |
| 15:00 –15:20 | BREAK | |

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| 15:20 – 16:00 | <p>Endovascular Treatment Options for Ruptured Intracranial Aneurysms</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Explain the rationale for selecting endovascular treatment options in ruptured aneurysms. • List commonly used endovascular techniques and adjuvant strategies for complex aneurysms. • Describe outcome grading systems used to assess treatment success and their clinical implications. | Dr. Gwynedd Pickett |
| 16:00 – 16:40 | <p>Pathophysiology, Diagnosis and Management of Cerebral Vasospasm</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Interpret investigations used in the evaluation of delayed neurological deterioration following subarachnoid hemorrhage. • Identify risk factors, epidemiology, and outcomes associated with cerebral vasospasm. • Apply current pathophysiological concepts to the selection of appropriate therapeutic interventions.. | Dr. Gwynedd Pickett |
| 16:40 – 17:30 | <p>The Visual Pathways I •</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Describe the anatomical organization and major connections of the visual pathways. • Identify clinical conditions associated with dysfunction of the visual pathways. • Apply anatomical knowledge to illustrative clinical cases. | Dr. Vivek Patel (Virtual) |
| 17:30- 18:20 | <p>The Visual Pathways II •</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Correlate visual pathway anatomy with clinical presentations of visual dysfunction. • Interpret clinical cases involving lesions affecting the visual pathways. • Apply visual pathway localization principles in exam-style scenarios. | Dr. Vivek Patel (Virtual) |

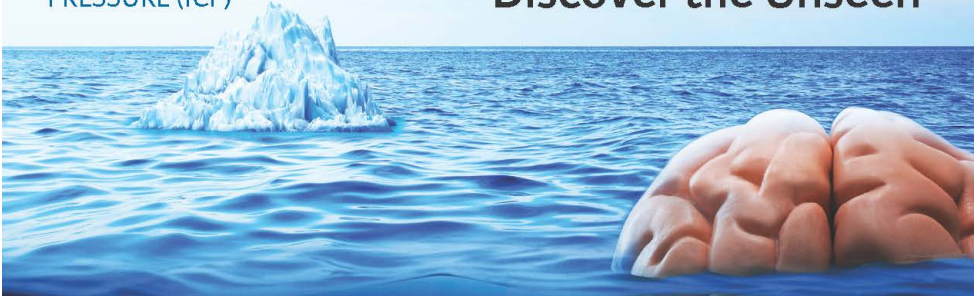
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| 18:20 – 1900h | CSF Physiology in Adult, IIH, NPH Management Learning Objectives By the end of this presentation, participants will be able to: <ul style="list-style-type: none">• Identify key diagnostic investigations for idiopathic intracranial hypertension and normal pressure hydrocephalus.• Select appropriate surgical management strategies for disorders of cerebrospinal fluid dynamics. | Dr. Michael Tso |
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Friday March 27th

| | | |
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| 07:20 – 08:00 | Breakfast | |
| 08:00 – 08:40 | <p>Imaging Techniques for Intra-Axial Brain Tumours Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Describe advanced imaging techniques used in the evaluation of intra-axial brain tumours. • Recognize imaging patterns of common intra-axial CNS neoplasms and key mimicking conditions, including tumour recurrence and radiation necrosis. | Dr. Thanh Nguyen |
| 08:40 – 09:20 | <p>Imaging Techniques for Extra-Axial Brain Tumours Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Describe advanced imaging techniques used in the evaluation of extra-axial brain tumours. • Identify common extra-axial tumours based on characteristic radiological features. | Dr. Thanh Nguyen |
| 09:20 – 09:30 | <p>Imaging – Spot diagnosis cases Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify key imaging findings associated with common neurosurgical pathologie | Dr Thanh Nguyen |
| 09:40 – 10:20 | <p>Surgery for Malignant Primary Brain Tumours Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Describe patterns of glial tumour growth and infiltration and their implications for surgical planning. • Explain the role of surgery in supporting adjuvant therapies and molecularly informed treatment strategies. • Identify technological advances that facilitate maximal safe resection and assess their impact on clinical outcomes. | Dr. David Fortin |
| 10:20 -10:30 | BREAK | |

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| 10:30 – 11:10 | <p>Craniopharyngiomas</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Describe the embryology and epidemiology of craniopharyngiomas. • Identify common clinical presentations and imaging features. • Compare surgical approaches used in the management of craniopharyngiomas. • Discuss prognosis and expected outcomes following treatment. | Dr. Fahad AlKherayf |
| 11:10- 11:50 | <p>CPA Tumours – Management</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify common pathologies affecting the cerebellopontine angle. • Outline surgical management strategies for cerebellopontine angle tumours based on pathology and anatomy. | Dr Luke Hnenny |
| 11:50- 12:30 | <p>Minimally Invasive Approaches in Spine Surgery: General Principles</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify indications and contraindications for minimally invasive spine surgery techniques. • Describe the role of enabling technologies in minimally invasive spinal procedures. • Apply principles of minimally invasive pedicle screw placement in thoracolumbar spine surgery. | Dr Safraz Mohammed |
| 12:30-13:40 | LUNCH | |
| 13:40- 14:20 | <p>Case Presentations</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Analyze skull base cases to determine appropriate diagnostic evaluation and surgical management strategies. | Dr. Luke Hnenny/Dr. Jessica Rabski |
| 14:20 -14:40 | BREAK | |

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| 1440 – 15:20 | <p>Management Options for Low Grade Gliomas: What’s New?</p> <p>Learning Objectives: By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Be able to explain the pathology and basic molecular biology of low- grade gliomas and what distinguishes them from high grade gliomas. • Be able to describe the typical presentation of patients with low grade glioma. • Be able to interpret the neuro-imaging of patients with low grade glioma. • Be able to discuss the controversies surrounding the management of patients with a low- grade glioma including the early surgery approach versus the watchful waiting approach. | Dr. Joe Megyesi |
| 15:20 – 16:00 | <p>Brain Metastases</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Enumerate available treatment options for patients with brain metastases. • Compare the advantages and limitations of surgical, radiosurgical, and systemic treatment approaches. • Apply current clinical guidelines to treatment decision-making for brain metastases. | Dr Paul Kongkham |
| 16:00 – 17:40 | <p>HOT SEAT SESSIONS</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Analyze common neurosurgical cases to formulate appropriate diagnostic and management plans. | Dr, David Fortin/Dr. Joe Megyesi |
| 17:40 – 18:20 | <p>Neuroanesthesia</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Select appropriate anesthetic techniques for neurosurgical procedures requiring brain mapping or intraoperative neurophysiological monitoring. • Discuss postoperative pain management strategies in neurosurgical patients. • Identify commonly used anesthetic agents in neurosurgery and their indications. | Dr. Adele Budiansky |

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Saturday March 28th

| | | |
|---------------|---|---------------------|
| 07:20 – 08:00 | Breakfast | |
| 08:00 – 08:40 | <p>Pathology of Non-Glial Tumours of the CNS</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Recognize key macroscopic and histological features of common extra-axial CNS tumours, peripheral nerve tumours, and pituitary tumours. • Identify morphological criteria used in the WHO classification and grading of non-glial CNS tumours. | Dr. Gerard Jansen |
| 08:40 – 09:20 | <p>Pathology of Intrinsic Primary Tumours of the CNS</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Explain the principles of integrated diagnosis for astrocytic and oligodendroglial tumours. • Interpret the role of molecular markers, including IDH mutation and ATRX status, in glioma classification. | Dr. Gerard Jansen |
| 09:20 – 09:30 | <p>Pathology – Spot diagnosis</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify characteristic pathological and imaging features of common neurosurgical tumours. | Dr. Gerard Jansen |
| 09:40 – 10:20 | <p>Movement Disorders: Pathophysiology and Surgical Management with DBS</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Outline the pathophysiology of common movement disorders relevant to surgical intervention. • Identify key basal ganglia targets for deep brain stimulation and their clinical indications. • Explain how DBS target selection influences surgical outcomes. | Dr. Alan Chalil |
| 10:20 - 10:30 | BREAK | |
| 10:30 – 11:10 | <p>Classification and Management of Lumbar Spondylolisthesis</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Classify lumbar spondylolisthesis using established classification systems. • Correlate spondylolisthesis classification with appropriate treatment options and expected outcomes. | Dr Carlo Santaguida |

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| | <ul style="list-style-type: none"> Apply classification principles to clinical decision-making in patient management. | |
| 11:10- 11:50 | <p>Vascular / Cranial Surgical Case Presentations</p> <p>Learning Objectives: By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> Analyze vascular and cranial surgical cases using a structured clinical and radiographic approach. Formulate management strategies based on case-specific anatomy, pathology, and risk factors. Evaluate surgical decision-making and outcomes through case-based discussion. | Dr. Max Findlay |
| 11:50- 12:20 12:20 – 12:30 | <p>Lecture on exam preparation, the written exam, OSCE Resident Perspective: Exam Preparation (Written Exam)</p> <p>Learning Objectives: By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> Describe the structure and expectations of the neurosurgery written examination and OSCE. Identify effective strategies for exam preparation and performance. Apply practical tips to optimize study planning and exam-day execution. | Dr. Max Findlay Dr. Anne-Sophie Parent |
| 12:30-13:40 | LUNCH with presentation | |
| 13:40- 15:00 | <p>HOT SEAT SESSION</p> <p>Learning Objectives: By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> Describe and explain the diagnosis, investigation, and management of common neurosurgical cases | Dr Carlo Santaguida/Dr. Max Findlay |
| 15:00 –15:20 | BREAK | |
| 15:20 – 16:00 | <p>Subaxial Cervical Spine Injuries</p> <p>Learning Objectives: By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> Be able to accurately diagnose subaxial cervical spine injuries. Recognize importance and use of different classification systems for subaxial cervical spine injuries Select appropriate management options for subaxial cervical spine injuries | Dr. Daipayan Guha (Virtual) |
| 16:00 – 16:40 | <p>O-C1-C2</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> Classify occiput–C1–C2 injuries and describe management options for each injury type. | Dr. Fawaz Siddiqi |

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| | <ul style="list-style-type: none"> Identify common pitfalls in written and oral examinations related to upper cervical spine trauma. | |
| 16:40 – 17:30 | <p>Spinal Cord Injury: Clinical considerations</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> Outline key principles in the acute management of spinal cord injury. Explain the evidence supporting current therapeutic strategies. Prioritize management steps in the emergency setting for patients with spinal cord injury. | Dr. Fawaz Siddiqi |
| 17:30- 17:40 | BREAK | |
| 17:40 – 18:20 | <p>Stereotactic Radiosurgery Primer for Neurosurgeons</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> Define the principles of stereotactic radiosurgery. Explain basic radiobiological concepts relevant to radiosurgery. Identify appropriate indications for radiosurgery in common neurosurgical conditions, including brain metastases, meningiomas, vestibular schwannomas, AVMs, and trigeminal neuralgia. | Dr. Amit Persad |

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Sunday March 29th

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|---------------|---|---------------------|
| 07:20 – 08:00 | Breakfast | |
| 08:00 – 08:40 | <p>Surgical Management of Traumatic Brain Injury</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Summarize current evidence and guidelines for the surgical management of traumatic brain injury. • Identify indications for surgical intervention in patients with TBI. | Dr. Dhany Charest |
| 08:50 – 09:30 | <p>Pituitary tumors: The Endocrinologist’s Perspective on Diagnosis and Management</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify key clinical, laboratory, and imaging findings required for the diagnosis and follow-up of patients with pituitary adenomas. • Apply endocrinologic principles to case-based decision-making in pituitary tumour management. | Dr. Heather Lochnan |
| 09:40 – 10:20 | <p>Pineal Tumours</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Recognize different pathologies affecting the pineal region • Identify the different diagnostic approaches for pineal tumours • Discuss different surgical approaches to pineal region | Dr. Fahad Alkherayf |
| 10:20 -10:30 | BREAK | |
| 10:30 – 11:10 | <p>When to Consider Specific Skull Base Approaches (Orbitozygomatic, Subtemporal, Anterior & Posterior Petrosectomy, Anterior Clinoidectomy)</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify anatomical and pathological indications for selected skull base approaches. • Select the most appropriate surgical approach based on lesion location, neurovascular anatomy, and operative goals. <p>Compare the advantages and limitations of each approach in common clinical scenarios.</p> | Dr. Jessica Rabski |

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| 11:10- 11:50 | <p>Spontaneous Intracerebral Haemorrhage: What's New</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Explain the pathophysiology of hematoma expansion and secondary brain injury. • Identify indications for surgical intervention in spontaneous intracerebral hemorrhage. • Describe strategies used to prevent and manage complications of intracerebral hemorrhage. | Dr. Dar Dowlatshahi |
| 11:50-12:30 | <p>Skull Base and Posterior Fossa Meningiomas</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify critical anatomical structures of the posterior cranial fossa and anterior and middle skull base. • Select the most appropriate surgical approach for skull base and posterior fossa meningiomas based on lesion characteristics. • Describe key safety measures required during surgical procedures in the posterior cranial fossa. | Dr. Kesh Reddy |
| 12:30-13:40 | LUNCH | |
| 13:40- 15:00 | <p>HOT SEAT SESSION</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Analyze neurosurgical cases to determine appropriate diagnostic evaluation and management strategies. | Dr. Fahad Alkherayf |
| 15:00 –15:20 | BREAK | |
| 15:20 – 16:00 | <p>Surgical Management of Pituitary Tumours/ Sellar/Suprasellar Lesions</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify indications for surgical intervention in pituitary and sellar/suprasellar lesions. • Compare surgical approaches and their underlying rationales. • Describe key steps in transnasal endoscopic pituitary surgery. • Discuss common challenges, complications, and expected outcomes | Dr. Charles Agbi |
| 16:00 – 16:40 | <p>Radiotherapy for CNS Tumours – Current Concepts</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Determine indications for radiotherapy in benign and malignant CNS tumours. • Describe radiotherapy approaches used in the treatment of malignant gliomas. | Dr. Vimoj Nair |

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| | <ul style="list-style-type: none"> Identify current radiotherapy techniques, including stereotactic radiosurgery, and their clinical indications. | |
| 16:40 – 17:30 | <p>Chemotherapy for CNS Tumours – Current Concepts</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> Apply evidence from the current literature to decision-making regarding systemic therapy for patients with primary CNS tumours. Identify clinical factors influencing selection of systemic treatment strategies. | Dr. Garth Nicholas |
| 17:30- 18:00 | BREAK | |
| 18:00 | Resident Social - Dinner | |

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Monday March 30th

| | | |
|---------------|--|-------------------|
| 07:20 – 08:00 | Breakfast | |
| 08:00 – 08:40 | <p>Case Presentations I – Cranial and Spinal Angiogram anatomy (normal and pathological) with Cases</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Interpret normal and pathological cranial and spinal angiographic anatomy. • Apply angiographic findings to the diagnosis and management of vascular neurosurgical cases. | Dr Lissa Peeling |
| 08:50 – 09:30 | <p>Case Presentations II – Cranial and Spinal Angiogram anatomy (normal and pathological) with Cases</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Analyze angiographic case examples to identify vascular pathology. • Formulate management strategies based on angiographic findings and clinical context. | Dr Lissa Peeling |
| 09:40 – 10:20 | <p>Vascular Malformations of the Brain and Spinal Cord: AVM's and DAVF's I</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Describe the epidemiology and clinical presentation of arteriovenous malformations and dural arteriovenous fistulas. • Classify vascular malformations using established systems. • Identify surgical treatment options for ruptured vascular malformations. | Dr. Julian Spears |
| 10:20 - 10:30 | BREAK | |
| 10:30 – 11:10 | <p>Vascular Malformations of the Brain and Spinal Cord: AVM's and DAVF's II</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Compare treatment modalities for AVMs and DAVFs, including surgical, endovascular, and radiosurgical options. • Apply classification frameworks to guide management decisions in complex vascular malformations. | Dr. Julian Spears |

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| 11:10 – 11:50 | <p>Intraoperative Neurophysiological Monitoring</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Describe commonly used intraoperative neurophysiological monitoring techniques and their clinical applications. • Explain the role of neurophysiological mapping in neurosurgical procedures. • Identify limitations and pitfalls associated with intraoperative monitoring. | Dr. Susan Morris |
| 11:50 – 12:30 | <p>Skull Base Surgical Approaches</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Describe fundamental principles of endoscopic skull base surgery. • Determine when conversion from an endoscopic to an alternative surgical approach is indicated based on intraoperative findings and patient factors.. | Dr. Amin Kassam |
| 12:30 – 13:40 | LUNCH with presentation | |
| 13:40 – 14:20 | <p>Neuromodulation for Pain</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Describe key pain pathways relevant to neuromodulation. • Identify surgical neuromodulation techniques used for pain management, including their indications and limitations. • Explain the physiological mechanisms underlying commonly used pain modulation strategies. | Dr. Alan Chalil |
| 14:20 – 15:00 | <p>Critical Care Management of TBI: What Should We Measure, When and Why</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Explain the role of intracranial pressure and cerebral perfusion pressure monitoring in traumatic brain injury. • Interpret neuromonitoring parameters, including cerebrovascular autoregulation. • Apply monitoring data to guide clinical decision-making in critically ill TBI patients. | Dr. Shane English |
| 15:00 – 15:20 | BREAK | |
| 15:20 – 16:40 | <p>HOT SEAT SESSION Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Analyze neurosurgical cases to develop appropriate diagnostic and management plans. | Dr. Safraz Mohammed and Dr. Charles Agbi |

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| 16:40 – 17:30 | <p>Stroke Update: Acute Medical and Interventional Neuroradiology Management</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Evaluate acute stroke cases to determine appropriate medical and interventional treatment options. • Explain the role of neurological examination in hyperacute stroke decision-making. | Dr. Robert Fahed |
| 17:40 – 18:20 | <p>Spinal Cord and Peripheral Nerve Tumours</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Classify spinal cord and peripheral nerve tumours based on imaging and pathological features. • Apply surgical principles to the management of intramedullary spinal cord tumours and peripheral nerve sheath tumours. • Utilize a structured approach to answering neurosurgical oral examination questions related to spinal and peripheral nerve tumours. | Dr Andrew Jack |

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Tuesday March 31st

| | | |
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| 07:20 – 08:00 | Breakfast | |
| 08:00 – 08:40 | <p>Spinal Biomechanics, Decision Making and surgical Options in Degenerative Spine Disease</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Define spinal stability and sagittal balance in the context of degenerative spine disease. • Describe pelvic parameters and their relevance to clinical decision-making. • Apply biomechanical principles to the selection of surgical techniques for spinal deformity correction. | Dr. Sean Christie |
| 08:50 – 09:30 | <p>Cervical Spondylosis: Diagnosis and Management</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Define cervical spondylotic myelopathy, including underlying anatomical and pathophysiological changes. • Identify clinical and radiographic indications for surgical intervention. • Compare surgical treatment options and their relative indications. | Dr Sean Christie |
| 09:40 – 10:20 | <p>Surgery for Epilepsy: What You Should Know</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify indications for surgical treatment of epilepsy. • Define medically refractory epilepsy. • Describe key elements of the pre-surgical evaluation, including neuroimaging and neuropsychological assessment. • Identify surgical anatomy relevant to temporal lobe epilepsy. | Dr. David Clarke |
| 10:20 -10:30 | BREAK | |
| 10:30 – 11:10 | <p>Epilepsy Case Discussions</p> <p>Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Describe the social and personal impact of uncontrolled epilepsy. • Outline surgical options for the investigation and treatment of medically refractory epilepsy. • Apply case-based reasoning to surgical decision-making in epilepsy management. | Dr. David Clarke |

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| 11:10- 11:50 | Management of Peripheral Nerve Entrapment Learning Objectives By the end of this presentation, participants will be able to: <ul style="list-style-type: none"> • Identify common peripheral nerve entrapment syndromes encountered in neurosurgical practice. • Describe the clinical features and pathophysiology of non-surgical peripheral nerve and muscle disorders relevant to the differential diagnosis. • Differentiate surgical from non-surgical conditions requiring nerve and/or muscle biopsy. | Dr Suganth Suppiah |
| 11:50- 12:30 | Management of Peripheral Nerve Injuries Learning Objectives By the end of this presentation, participants will be able to: <ul style="list-style-type: none"> • Describe the pathophysiology of peripheral nerve injuries. • Classify peripheral nerve injuries using established classification systems. • Identify causes, clinical features, and epidemiology of peripheral nerve injuries. • Apply a structured approach to the management of peripheral nerve injuries. | Dr. Line Jacques / Dr Andrew Jack |
| 12:30-13:40 | LUNCH | |
| 13:40- 15:00 | HOT SEAT SESSION Learning Objectives By the end of this presentation, participants will be able to: <ul style="list-style-type: none"> • Analyze common neurosurgical cases to determine appropriate diagnostic evaluation and management strategies. | Dr. Line Jacques / Dr Andrew Jack |
| 15:00 –15:20 | BREAK | |
| 15:20- 16:00 | Case discussions – Peripheral nerve tumors, approaches, work up and management Learning Objectives By the end of this presentation, participants will be able to: <ul style="list-style-type: none"> • Evaluate peripheral nerve tumour cases to guide diagnostic work-up and management planning. • Apply anatomical and pathological principles to surgical decision-making. | Dr. Line Jacques / Dr Andrew Jack |

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| <p>16:00 – 16:40</p> | <p>Classification and Management of Thoracolumbar Injuries Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Classify thoracolumbar injuries using clinically relevant classification systems. • Correlate injury classification with treatment options and expected outcomes. • Apply classification frameworks to guide management decisions in thoracolumbar trauma. | <p>Dr. Scott Paquette</p> |
| <p>16:40 – 17:30</p> | <p>Pediatric Brain Tumors I Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify age-specific clinical presentations of pediatric brain tumours. • Classify common pediatric brain tumours using updated WHO criteria. • Compare key differences between pediatric and adult brain tumours relevant to surgical planning. | <p>Dr. Ziyad Makoshi</p> |
| <p>17:30- 17:40</p> | <p>BREAK</p> | |
| <p>17:40 – 18:20</p> | <p>Pediatric Brain Tumors II Learning Objectives By the end of this presentation, participants will be able to:</p> <p>Case based presentation</p> <ul style="list-style-type: none"> • Describe and explain the diagnosis, investigation, and management of common neurosurgical cases | <p>Dr. Ziyad Makoshi</p> |



14th Annual Ottawa Neurosurgery Review Course Schedule
 March 26 – April 2, 2026
 Course Location – The Marconi Centre, 1026 Baseline Road, Ottawa

Wednesday April 1st

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| 07:20 – 08:00 | Breakfast | |
| 08:00 – 08:40 | <p>Carotid Endarterectomy: What You Should Know</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify clinical indications for extracranial carotid artery reconstruction. • Explain the importance of timing in carotid endarterectomy. • Apply current Canadian guidelines to decision-making in carotid artery reconstruction | Dr. Howard Lesiuk |
| 08:50 – 09:30 | <p>Imaging of Spine and Spinal Tumors</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Describe key imaging features of common and uncommon intramedullary spinal tumours. • Differentiate spinal tumour types based on radiographic characteristics.. | Dr. Nader Zakhari |
| 09:40 – 10:10 | <p>Imaging of the Spine II – Neoplastic</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify imaging characteristics of primary and metastatic spinal neoplasms. • Interpret imaging findings to support diagnosis, staging, and surgical planning. | Dr. Nader Zakhari |
| 10:10 – 10:20 | <p>Spine Imaging Spot diagnosis</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify characteristic imaging findings of common spinal neurosurgical pathologies. | Dr Nader Zakhari |
| 10:20 -10:30 | BREAK | |
| 10:30 – 11:10 | <p>Childhood Hydrocephalus: Contemporary Management Objectives:</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Apply pathophysiological principles to select appropriate management strategies for pediatric hydrocephalus. • Utilize evidence from clinical trials and registries to guide treatment decisions. • Recognize clinical presentations of treatment failure. | Dr. Femi Ajani |

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| 11:10- 11:50 | <p>Spinal Dysraphism and Tethered Cord Syndrome Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Identify common pediatric spinal malformations, including spinal dysraphism, tethered cord syndrome, and split cord syndrome. • Describe surgical management strategies for these conditions. | Dr. Albert Tu |
| 11:50- 12:30 | <p>Case discussions Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Analyze neurosurgical cases to determine appropriate diagnostic evaluation and management strategies. | Dr. Femi Ajani/Dr. Albert Tu |
| 12:30-13:40 | LUNCH | |
| 13:40- 15:00 | <p>HOT SEAT SESSION Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Analyze complex neurosurgical cases to develop appropriate diagnostic and management plans. | Dr. Albert Tu |
| 15:00 –15:20 | BREAK | |
| 15:20 – 16:00 | <p>Case Presentations – Pediatric Spine and Other cases Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Apply clinical and imaging findings to guide diagnosis and management of pediatric spine cases. | Dr Blake Yarascavitch (Virtual) |

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| 16:00 – 16:40 | <p>Craniosynostosis and Craniofacial Anomalies Learning Objectives By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> • Classify major types of craniosynostosis. • Identify common syndromic craniofacial anomalies and their distinguishing features. • Apply principles of timing and surgical decision-making in the management of craniosynostosis and craniofacial anomalies. | Dr. David McAuley |

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| | <ul style="list-style-type: none"> Describe standard surgical approaches used in craniosynostosis repair. | |
| 16:40 – 17:30 | <p>Chiari malformation and syringomyelia</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> Define and classify Chiari malformations. Describe the pathophysiology of syringomyelia. Explain the association between Chiari I malformation and syringomyelia. Select appropriate management strategies for Chiari I malformation with or without syringomyelia. | Dr. Jay Riva-Cambrin |
| 17:30- 17:40 | BREAK | |
| 17:40 – 18:20 | <p>Pediatric Functional Neurosurgery</p> <p>Learning Objectives</p> <p>By the end of this presentation, participants will be able to:</p> <ul style="list-style-type: none"> Describe the classification and management principles of pediatric epilepsy. Explain the pathophysiology of spasticity and corresponding treatment options. Identify neurosurgical approaches to pain management in pediatric patients. | Dr. Jay Riva-Cambrin |
| 18:20 | Closing remarks and wrap up | Dr. Fahad Alkherayf Dr. Charles Agbi Dr Safraz Mohammed |

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