

11th Annual Ottawa Neurosurgery Review Course Schedule  
February 4 – 11, 2023  
Course Location – The Marconi Centre – 1026 Baseline Road, Ottawa

## Saturday February 4<sup>th</sup>

07:00 – 07:40	Registration and Breakfast	
07:40 – 08:00	<b>Introductory Remarks Q&amp;A</b>	Dr. Charles Agbi Dr Safraz Mohammed Dr. Fahad Alkherayf
08:00 – 08:40	<b>Minimally Invasive Approaches in Spine Surgery: General Principles</b> <ul style="list-style-type: none"> <li>Describe the indications and contraindications for minimally invasive techniques in spinal surgery</li> <li>Discuss the role of technology in minimally invasive spine surgery</li> <li>Be able to describe the planning and placement of thoracolumbar pedicle screws using minimally invasive techniques</li> </ul>	Dr. Safraz Mohammed
08:50 – 09:30	<b>Pineal Tumours</b> <ul style="list-style-type: none"> <li>To be familiar with different pathologies affecting the pineal region</li> <li>Identify the different diagnostic approaches for pineal tumours</li> <li>Discusses different surgical approaches to pineal region</li> </ul>	Dr. Fahad Alkherayf
09:40 – 10:20	<b>Epidemiology, Genetics, Molecular Biology of Intracranial Aneurysms. Management of Unruptured Intracranial Aneurysms.</b> <ul style="list-style-type: none"> <li>List three genetic syndromes associated with the development of brain aneurysms</li> <li>List three molecules involved in the pathogenesis of aneurysms</li> <li>List three histological features of aneurysm formation</li> <li>Name three aneurysm features that can influence risk of rupture</li> </ul>	Dr. Alim Mitha
10:20 - 10:30	<b>BREAK</b>	
10:30 – 11:10	<b>Surgical Management of Ruptured Intracranial Aneurysms</b> <ul style="list-style-type: none"> <li>To describe the rationale for the treatment of ruptured and unruptured aneurysms</li> <li>Select the appropriate therapeutic strategy(ies) for the treatment of an aneurysm</li> <li>To describe the risks associated with the treatment and therapeutic measures to minimize such risks</li> <li>Describe the rationale for a multidisciplinary approach to the management of aneurysms</li> </ul>	Dr. Alim Mitha
11:10- 11:50	<b>Chordomas and Chondrosarcomas: Current Management</b> <ul style="list-style-type: none"> <li>Describe the pathological differences between chordomas and chondrosarcomas</li> <li>Describe the role of multi-disciplinary care in the treatment of chordomas and chondrosarcomas</li> <li>Discuss the oncologic surgical principles for resection of chordomas and chondrosarcomas</li> <li>Outline the options for surgical management of skull base chordomas and chondrosarcomas</li> </ul>	Dr. Idara Edem
11:50- 12:30	<b>Case discussions</b>	Dr. Idara Edem
12:30-13:40	<b>LUNCH – Presentation by Stryker</b>	Stephanie Synnott, Product Mgr, CMF & Conor Denvir Product Mgr, Neurosurgical
13:40- 15:00	<b>HOT SEAT Sessions</b>	Dr. Alim Mitha

15:00 – 15:20	<b>BREAK</b>	
15:20 – 16:00	<b>Lecture on exam preparation, the written exam, OSCE</b>	Dr. Safraz Mohammed
16:00 – 16:40	<b>Endovascular Treatment Options for Ruptured Intracranial Aneurysms</b> <ul style="list-style-type: none"> <li>• Discuss the scientific basis for choosing treatment options for ruptured aneurysms</li> <li>• List three different endovascular techniques for ruptured aneurysms</li> <li>• Discuss commonly used adjuvant techniques for dealing with complex aneurysms</li> <li>• Describe a grading system for measuring treatment outcomes and the implications</li> </ul>	Dr. Gwynedd Pickett
16:40 – 17:30	<b>Pathophysiology, Diagnosis and Management of Cerebral Vasospasm</b> <p>Following this lecture, learners will be able to:</p> <ul style="list-style-type: none"> <li>• Select and correctly interpret appropriate investigations in the management of delayed neurological deterioration post-SAH.</li> <li>• List risk factors for cerebral vasospasm and describe epidemiology and outcomes.</li> <li>• Describe current understanding of pathophysiology of vasospasm post-SAH.</li> <li>• Choose appropriate therapy for management of cerebral vasospasm.</li> </ul>	Dr. Gwynedd Pickett
17:30- 17:40	<b>BREAK</b>	
17:40 – 18:20	<b>Stroke Update: Acute Medical and Interventional Neuroradiology Management</b> <ul style="list-style-type: none"> <li>• Examine a case study of a stroke patient and determine treatment options.</li> <li>• Relate the importance of neurological examination in hyperacute stroke management.</li> </ul>	Dr. Robert Fahed

# stryker

stryker

Making  
healthcare better  
**together**



Visit our booth on **Feb. 4th** to learn  
more about **Stryker technology**

11th Annual Ottawa Neurosurgery Review Course Schedule  
February 4 – 11, 2023  
Course Location – The Marconi Centre – 1026 Baseline Road, Ottawa

## Sunday February 5<sup>th</sup>

07:20 – 08:00	Breakfast	
08:00 – 08:40	<b>Pathology of Non-Glial Tumours of the CNS</b> <ul style="list-style-type: none"> <li>Recognize the key macroscopical and histological features of the most frequent extra-axial tumor, peripheral nervous system tumors and pituitary tumors.</li> <li>Identify the key morphological elements supporting the WHO classification and grading of the entities presented</li> </ul>	Dr. Gerald Jansen
08:50 – 09:30	<b>Pathology of Intrinsic Primary Tumours of the CNS</b> <ul style="list-style-type: none"> <li>Gain knowledge of the new integrated diagnosis in use for Astrocytic and Oligodendroglial tumours.</li> <li>To be able to identify the role ATRX, and IDH mutation results play in classification of gliomas</li> </ul>	Dr. Gerald Jansen
09:40 – 10:20	<b>Molecular Biology and Genetics of Brain Tumours: Current Concepts and Therapeutic Implications</b> <ul style="list-style-type: none"> <li>Identify the new WHO classification</li> <li>Realize the prognostic impact for the molecular classification of gliomas</li> <li>Discuss the rationale for the superiority of the molecular classification over the morphological classification in the current WHO schema</li> <li>Anticipate how this will eventually impact clinical practice</li> </ul>	Dr. David Fortin
10:20 - 10:30	<b>BREAK</b>	
10:30 – 11:10	<b>Surgery for Malignant Primary Brain Tumours</b> <ul style="list-style-type: none"> <li>Describe dynamics of glial tumour growths and infiltration, and the role of surgery in negating these phenomenon's</li> <li>To better define the role of surgery in assisting adjuvant treatment and impacting clinical surrogates in relation to molecular subtyping</li> <li>To clarify the role and impact of technological advancements in assisting gross total resection, and their impact on clinical surrogates.</li> </ul>	Dr. David Fortin
11:10- 11:50	<b>Imaging Techniques for Intra-Axial Brain Tumours</b> <ul style="list-style-type: none"> <li>Review advanced imaging techniques for intra-axial tumours</li> <li>Brief primer on MRI sequences</li> <li>Recognize imaging patterns of CNS neoplasms and mimicking diseases</li> <li>Recognize the radiological features of radiation necrosis and tumor recurrence</li> </ul>	Dr. Thanh Nguyen
11:50- 12:30	<b>Imaging Techniques for Extra-Axial Brain Tumours</b> <ul style="list-style-type: none"> <li>Review advanced imaging techniques for extra-axial tumours</li> <li>Be able to identify different extra-axial tumours on radiological images</li> </ul>	Dr. Thanh Nguyen
12:30-13:40	<b>LUNCH</b>	
13:40- 15:00	<b>HOT SEAT SESSION</b>	Dr. David Fortin/Dr. Joe Megyesi
15:00 – 15:20	<b>BREAK</b>	
15:20 – 16:00	<b>Case Presentations</b>	Dr Paul Kongkham
16:00 – 16:40	<b>Management Options for Low Grade Gliomas: What's New?</b>	Dr. Joe Megyesi

	<ul style="list-style-type: none"> <li>• Be able to explain the pathology and basic molecular biology of low- grade gliomas and what distinguishes them from high grade gliomas.</li> <li>• Be able to describe the typical presentation of patients with low grade glioma.</li> <li>• Be able to interpret the neuro-imaging of patients with low grade glioma.</li> <li>• 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.</li> </ul>	
16:40 – 17:30	<p><b>Brain Metastases</b></p> <ul style="list-style-type: none"> <li>• Enumerate the currently available treatment options for metastatic brain tumours</li> <li>• Discuss the relative advantages and disadvantages of each treatment option/combination</li> <li>• Discuss the available evidence supporting currently employed the treatment option</li> <li>• Discuss the current guidelines for treatment of these lesions</li> </ul>	Dr Paul Kongkham
17:40 – 18:20	<p><b>Stereotactic Radiosurgery Primer for Neurosurgeons</b></p> <ul style="list-style-type: none"> <li>• Define the concept of stereotactic radiosurgery</li> <li>• Explain basic radiobiology principles related to radiosurgery</li> <li>• Identify the role of radiosurgery in the management of common neurosurgical conditions: <ol style="list-style-type: none"> <li>1. brain metastases</li> <li>2. meningiomas</li> <li>3. vestibular schwannomas</li> <li>4. AVMs</li> <li>5. trigeminal neuralgia</li> </ol> </li> </ul>	Dr Paul Kongkham

# Medtronic



**ROBOTIC PRECISION.  
POWERED BY YOU.**

Engineered to provide stereotactic positioning and trajectory guidance. Integrated with StealthStation™ for continuous real-time visualization, feedback, and robotically-assisted movement allows you to align to your surgical plans for cranial procedures.

**SMALL O.R.  
FOOTPRINT**

**SEAMLESS  
INTEGRATION**

**ROBOTICALLY-  
ASSISTED  
PLACEMENT**

**Medtronic**

© 2021 Medtronic. All rights reserved.

11th Annual Ottawa Neurosurgery Review Course Schedule  
February 4 – 11, 2023  
Course Location – The Marconi Centre , 1026 Baseline Road, Ottawa

## Monday February 6<sup>th</sup>

07:20 – 08:00	Breakfast	
08:00 – 08:40	<b>Imaging of Spine and Spinal Tumors</b> <ul style="list-style-type: none"> <li>• Review the key imaging features of common and infrequent intramedullary tumors.</li> <li>• Discuss the role of conventional and advanced imaging techniques in the diagnosis and management of these tumors</li> <li>• Assess the most common intradural – extramedullary tumors</li> </ul>	Dr. Nader Zakhari
08:50 – 09:30	<b>Imaging of the spine II</b>	Dr Nader Zakhari
09:40 – 10:20	<b>Movement Disorders: Pathophysiology and Surgical Management with DBS</b> <ul style="list-style-type: none"> <li>• List the pathological and molecular differences between neurodegenerative diseases including movement disorders, motor neuron disorders and cognitive disorders</li> <li>• Explain the importance of non-motor features of Parkinson’s Disease and provide examples of each</li> <li>• Review the targets for neuromodulation (eg. DBS) in the basal ganglia for the treatment of movement disorders Describe the technical steps and surgical nuances of DBS</li> </ul>	Dr. Suneil Kalia
10:20 - 10:30	<b>BREAK</b>	
10:30 – 11:10	<b>Classification and Management of lumbar Spondylolisthesis</b> <ul style="list-style-type: none"> <li>• Classification of lumbar spondylolisthesis in relation to treatment options and outcomes</li> <li>• Decision making in the management of thoracolumbar injuries</li> <li>• Enumerate treatment options</li> <li>• Describe the elements of surgical treatment</li> </ul>	Dr Carlo Santaguida
11:10- 11:50	<b>Neuromodulation for Pain</b> At the end of this session, participants should be able to <ul style="list-style-type: none"> <li>• Describe and draw the pain pathways , Discuss the role of surgery in pain modulation</li> <li>• List the currently available techniques for pain modulation including their indications and limitation</li> </ul> Discuss the physiological basis for the common pain modulation techniques utilized by neurosurgeons	Dr. Keith MacDougall
11:50- 12:30	<b>Case discussions</b>	Dr. Keith MacDougall
12:30-13:40	<b>LUNCH</b>	
13:40- 15:00	<b>HOT SEAT SESSION</b>	Dr. Allan Levi / Dr Carlo Santaguida
15:00 – 15:20	<b>BREAK</b>	
15:20 – 16:00	<b>Craniopharyngiomas</b> <ul style="list-style-type: none"> <li>• Be able to describe the embryology and epidemiology of craniopharyngioma</li> <li>• List the common symptoms and signs, and imaging features</li> <li>• List the surgical approaches and be able to describe the details of two (2) common approaches</li> <li>• Discuss the prognosis and outcome of this condition</li> </ul>	Dr. Fahad Alkherayf

16:00 – 16:40	<b>Case Presentations</b>	Dr. Fahad Alkherayf
16:40 – 17:30	<b>Carotid Endarterectomy: What You Should Know</b> <ul style="list-style-type: none"> <li>To be able to list the clinical indications for extracranial carotid artery reconstruction.</li> <li>Be able to discuss the importance of timing of carotid artery reconstruction</li> </ul> Be able to describe the current Canadian Guidelines regarding carotid artery reconstruction	Dr. Howard J Lesiuk
17:30- 17:40	<b>BREAK</b>	
17:40 – 18:20	<b>Spinal Cord and Peripheral Nerve Tumours</b> <ul style="list-style-type: none"> <li>Demonstrate competency in the classification, imaging characteristics, surgical extirpation and differential diagnosis of intramedullary spinal cord tumors</li> <li>Demonstrate competency in the classification, imaging characteristics, surgical removal of peripheral nerve sheath tumors</li> <li>Develop a standardized protocol for answering neurosurgical oral board questions</li> </ul>	Dr. Dr. Allan Levi



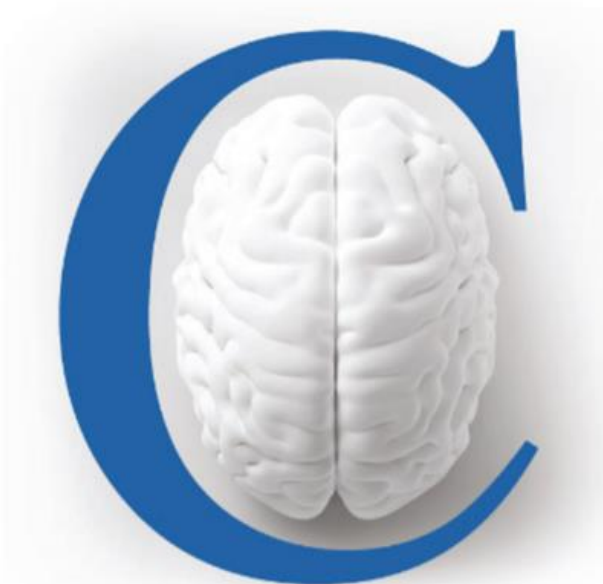


11th Annual Ottawa Neurosurgery Review Course Schedule  
 February 4 – 11, 2023  
 Course Location – The Marconi Centre, 1026 Baseline Road, Ottawa

## Tuesday February 7<sup>th</sup>

07:20 – 08:00	Breakfast	
08:00 – 08:40	<b>Pituitary tumours: The Endocrinologist’s Perspective on Diagnosis and Management</b> <ul style="list-style-type: none"> <li>• To identify the clinical and laboratory findings important in the initial work-up and follow-up of patients with pituitary adenomas</li> <li>• Interactive Case-based Seminar</li> </ul>	Dr Mary-Ann Doyle
08:50 – 09:30	<b>Neuro-ophthalmology Case discussion</b>	Dr. Danah Al-Breiki
09:40 – 10:20	<b>Critical Care Management of TBI: What Should We Measure, When and Why</b> <ul style="list-style-type: none"> <li>• Describe the patient population that may benefit from monitoring</li> <li>• Demonstrate the physiologic processes we can measure</li> <li>• Review the role and key measures of monitoring in ICU management of TBI                             <ul style="list-style-type: none"> <li>○ ICP monitoring</li> <li>○ CPP</li> </ul> </li> <li>• Cerebrovascular Autoregulation</li> </ul>	Dr. Shane English
10:20 - 10:30	<b>BREAK</b>	
10:30 – 11:10	<b>Skull Base and Posterior Fossa Meningiomas</b> <ul style="list-style-type: none"> <li>• Be able to identify the key anatomical structures in the posterior cranial fossa and along the anterior and middle skull base</li> <li>• Be able to decide which surgical approach is optimal for the presenting lesion</li> <li>• Be able to express the safety measure to undertake for surgical procedures in the posterior cranial fossa</li> </ul>	Dr. Kesh Reddy
11:10- 11:50	<b>Surgical Management of Pituitary Tumours/ Sellar/Suprasellar Lesions</b> <ul style="list-style-type: none"> <li>• Identify the indications for surgery in pituitary tumours</li> <li>• Enumerate the surgical options and their rationales</li> <li>• Describe the transnasal endoscopic removal of pituitary lesions</li> <li>• Discuss the outcomes including challenges and complications</li> </ul>	Dr. Charles Agbi
11:50- 12:30	<b>Cranial Nerves: Review I</b> <ul style="list-style-type: none"> <li>• Describe the central connections of cranial nerves I, III, IV, V and VI</li> <li>• Discuss the clinical aspects of the neurophysiology</li> <li>• Discuss the surgical significance of their course and distribution</li> <li>• List surgical Lesions associated with these nerves</li> </ul>	Dr. Charles Agbi
12:30-13:40	<b>LUNCH</b>	
13:40- 15:00	<b>HOT SEAT SESSION</b>	Dr Kesh Reddy/ Dr. Fahad Alkherayf
15:00 – 15:20	<b>BREAK</b>	
15:20 – 16:00	<b>Spontaneous Intracerebral Haemorrhage: What’s New</b> <ul style="list-style-type: none"> <li>• Describe the pathophysiology of hematoma expansion, hemodynamics &amp; hemostasis</li> <li>• List and discuss the indications for ICH surgery</li> <li>• List the steps utilized in preventing complications of ICH</li> </ul>	Dr. Dar Dowlatshahi

16:00 – 16:40	<b>Radiotherapy for CNS Tumours – Current Concepts</b> <ul style="list-style-type: none"> <li>• discuss when radiation therapy is indicated for various benign and malignant tumors</li> <li>• describe radiation therapy approaches for malignant gliomas</li> <li>• define the current radiation therapy techniques</li> <li>• list the indications of stereotactic radiation/radiosurgery</li> </ul>	Dr. Vimoj Nair
16:40 – 17:30	<b>Chemotherapy for CNS Tumours – Current Concepts</b> <ul style="list-style-type: none"> <li>• Attendees will be able to apply existing literature to decisions about systemic therapy for patients with primary brain tumours.</li> </ul>	Dr. Garth Nicholas
17:30- 18:00	<b>BREAK</b>	
18:00	<b>Resident Social - Dinner</b>	



AN NTEGRA LIFESCIENCES COMPANY

Codman's  
got you covered.

The global leader in neurosurgery  
is your one-stop, comprehensive  
source for proven,  
market-leading neurosurgical solutions.

Codman  
SPECIALTY SURGICAL

INTEGRA   
CODMAN NEURO

11th Annual Ottawa Neurosurgery Review Course Schedule  
February 4 – 11, 2023  
Course Location – The Marconi Centre, 1026 Baseline Road, Ottawa

## Wednesday February 8<sup>th</sup>

07:20 – 08:00	Breakfast	
08:00 – 08:40	<b>Case Presentations I – Cranial and Spinal Angiogram anatomy (normal and pathological) with Cases</b>	Dr Lissa Peeling (Virtual)
08:50 – 09:30	<b>Case Presentations II – Cranial and Spinal Angiogram anatomy (normal and pathological) with Cases</b>	Dr Lissa Peeling (Virtual)
09:40 – 10:20	<b>Diagnosis, Classification and Management of Subaxial Cervical Spine Injuries</b> <ul style="list-style-type: none"> <li>• Be able to accurately diagnose subaxial cervical spine injuries.</li> <li>• Recognize importance and use of different classification systems for subaxial cervical spine injuries</li> </ul> Select appropriate management options for subaxial cervical spine injuries	Dr. Khaled AlMusrea
10:20 - 10:30	<b>BREAK</b>	
10:30 – 11:10	<b>Vascular Malformations of the Brain and Spinal Cord: AVM's and DAVF's I</b> <ul style="list-style-type: none"> <li>• Discuss the epidemiology and clinical features of AVM's</li> <li>• Describe the surgical treatments of a ruptured AVM</li> </ul> Describe the classification and treatment options for AVM's	Dr. Julian Spears
11:10 – 11:50	<b>Vascular Malformations of the Brain and Spinal Cord: AVM's and DAVF's II</b> <ul style="list-style-type: none"> <li>• Discuss the epidemiology and clinical features of AVM's</li> <li>• Describe the surgical treatments of a ruptured AVM</li> </ul> Describe the classification and treatment options for AVM's	Dr. Julian Spears
11:50 – 12:30	<b>A screw at every level of the spine</b>	Dr Safraz Mohammed
12:30 – 13:40	<b>LUNCH</b>	
13:40 – 14:20	<b>Intraoperative Neurophysiological Monitoring I</b> <ul style="list-style-type: none"> <li>• Describe intraoperative neurophysiological monitoring ((IONM) techniques and their usefulness               <ul style="list-style-type: none"> <li>• Describe neurophysiological mapping techniques and their usefulness</li> <li>• Describe the limitations of IONM and neurophysiological mapping</li> </ul> </li> </ul>	Dr. Susan Morris
14:20 – 15:00	<b>Intraoperative Neurophysiological Monitoring II</b> <ul style="list-style-type: none"> <li>• Compare and contrast the strengths, weaknesses and overall usefulness of the two primary modalities used in intraoperative neurophysiological monitoring (IONM): 1. Somatosensory Evoked Potentials (SSEPs) and 2. Transcranial Motor Evoked Potentials (TcMEPs).</li> <li>• Compare and contrast TcMEPs and D-wave potentials with specific reference to spinal cord tumour resection surgery.</li> <li>• Choose the intraoperative neurophysiological <i>monitoring</i> and/or <i>mapping</i> modalities you would employ during the below listed procedures and clearly state the rationale for your choice(s):               <ul style="list-style-type: none"> <li>o Spine deformity correction</li> </ul> </li> </ul>	Dr. Susan Morris

15:00 – 15:20	<b>BREAK</b>	
15:20 – 16:40	<b>HOT SEAT SESSION</b>	Dr. Safraz Mohammed and Dr. Charles Agbi
16:40 – 17:30	<b>Cranial Nerves: Review II</b> <ul style="list-style-type: none"> <li>• Describe the central connections of cranial nerves VII, VIII, IX,X, XI and XII</li> <li>• Discuss the clinical aspects of the neurophysiology</li> <li>• Discuss the surgical significance of their course and distribution</li> <li>• List surgical lesions associated with these nerves</li> </ul>	Dr. Charles Agbi
17:40 – 18:20	<b>Neuroanesthesia</b> <ul style="list-style-type: none"> <li>• Be able to decide the technique of anesthesia for brain mapping procedures and those requiring intraoperative neurophysiological monitoring.</li> <li>• Be able to discuss the options available for postoperative pain management.</li> <li>• List the common anaesthetic agents utilized in neurosurgery and their indications and relative merits.</li> </ul>	Dr. Adele Budiansky

# ***Baxter***

11th Annual Ottawa Neurosurgery Review Course Schedule  
 February 4 – 11, 2023  
 Course Location – The Marconi Centre, 1026 Baseline Road, Ottawa

## Thursday February 9<sup>th</sup>

07:20 – 08:00	Breakfast	
08:00 – 08:40	<b>Spinal Biomechanics, Decision Making and surgical Options in Degenerative Spine Disease</b> <ul style="list-style-type: none"> <li>Define the concept of spinal stability and sagittal balance</li> <li>Describe “pelvic parameters” in clinical practice</li> </ul> Describe surgical techniques for correcting deformity	Dr. Sean Christie
08:50 – 09:30	<b>Cervical Spondylosis: Diagnosis and Management</b> <ul style="list-style-type: none"> <li>Define cervical spondylotic myelopathy, including anatomical changes and pathophysiology</li> <li>Describe the indications for surgery</li> <li>Describe surgical options and provide relative indications for each</li> </ul>	Dr Sean Christie
09:40 – 10:20	<b>Surgery for Epilepsy: What You Should Know</b> <ul style="list-style-type: none"> <li>Explain indications for the surgical treatment of epilepsy</li> <li>Review surgical anatomy relevant to temporal lobe epilepsy</li> <li>Know the definition of medically refractory epilepsy</li> <li>Review basic work-up of epilepsy patients, including neuropsychology evaluations</li> </ul>	Dr. David Clarke
10:20 - 10:30	<b>BREAK</b>	
10:30 – 11:10	<b>Management of Peripheral Nerve Injuries</b> <ul style="list-style-type: none"> <li>Describe the pathophysiology of peripheral nerve injuries</li> <li>Classify these injuries</li> <li>Describe the causes, clinical features and epidemiology</li> </ul> Discuss a logical approach to their management	Dr. Line Jacques / Dr Andrew Jack
11:10- 11:50	<b>Management of Peripheral Nerve Entrapment</b> Peripheral Nerve Entrapment Syndrome <ul style="list-style-type: none"> <li>Have a basic understanding of and be able to describe the clinical features and pathophysiology of non-surgical peripheral nerve and muscle diseases involved in the differential diagnosis of neurosurgical conditions or requiring nerve and/or muscle biopsy.</li> <li>Describe the pathology and pathophysiology of peripheral nerve</li> </ul>	Dr. Line Jacques / Dr Andrew Jack
11:50- 12:30	<b>Case discussions – Peripheral nerve tumors, approaches, work up and management</b>	Dr. Line Jacques / Dr Andrew Jack
12:30-13:40	<b>LUNCH</b>	
13:40- 15:00	<b>HOT SEAT SESSION</b>	Dr. Line Jacques / Dr Andrew Jack
15:00 – 15:20	<b>BREAK</b>	
15:20- 16:00	<b>O-C1-C2</b> <ul style="list-style-type: none"> <li>To be able to identify the various types of C1/C2 injuries and describe the management options for each type</li> <li>Identify common pitfalls in the written and oral exams and how to avoid them, using clinical examples</li> </ul>	Dr. Eugene Wai
16:00 – 16:40	<b>Classification and Management of Thoracolumbar Injuries</b> <ul style="list-style-type: none"> <li>Practical classification of thoracolumbar injuries in relation to treatment options and outcomes</li> <li>Decision making in the management of thoracolumbar injuries</li> <li>Enumerate treatment options</li> <li>Describe the elements of surgical treatment</li> </ul>	Dr. Scott Paquette

16:40 – 17:30	<b>Pediatric Brain Tumors I</b> <ul style="list-style-type: none"> <li>• Discuss the presenting signs of a brain tumor- different childhood age groups; diagnostic workup</li> <li>• Identify/ classify more common brain tumors found in children; develop an appropriate Dx for a newly presenting pediatric brain tumor-WHO Classification has been updated in 2016</li> <li>• Describe differences between adults and children in terms of types of tumors and planning surgery</li> </ul> <p>Feel Confident at the Royal College Exam, if you get a question</p>	Dr. Adrianna Ranger (Virtual)
17:30- 17:40	<b>BREAK</b>	
17:40 – 18:20	<b>Pediatric Brain Tumors II</b>	Dr. Adrianna Ranger (Virtual)



Seeing beyond

11th Annual Ottawa Neurosurgery Review Course Schedule  
 February 4 – 11, 2023  
 Course Location – The Marconi Centre, 1026 Baseline Road, Ottawa

## Friday February 10<sup>th</sup>

07:20 – 08:00	Breakfast	
08:00 – 08:40	<b>Spinal Cord Injury: Clinical considerations</b> <ul style="list-style-type: none"> <li>• Be familiar with the cornerstones for the treatment of acute spinal cord injury</li> <li>• Explain the evidence behind therapeutic strategies for spinal cord injury</li> </ul> Outline priorities of spinal cord injury in the emergency setting	Dr. John Hurlbert
08:50 – 09:30	<b>Case Presentations</b>	Dr. Osaama Khan
09:40 – 10:20	<b>Vestibular and other schwannomas Glomus tumors. What you should know</b> <ul style="list-style-type: none"> <li>• Describe the epidemiology and molecular biology of vestibular schwannomas and glomus tumours (including latest thinking)</li> <li>• Enumerate the preop investigations and treatment options for these lesions</li> </ul> Describe the surgical approaches to the treatment of these lesions and their outcomes.	Dr. Osaama Khan
10:20 - 10:30	<b>BREAK</b>	
10:30 – 11:10	<b>Childhood Hydrocephalus: Contemporary Management Objectives:</b> <ul style="list-style-type: none"> <li>• At the end of the presentation, participants will be able to</li> <li>• Apply pathophysiological principles to determine the appropriate options for the management of hydrocephalus in the pediatric age group</li> <li>• Utilize the results of clinical trials and registries to guide decision making</li> <li>• Recognize the various clinical presentation of treatment failure</li> </ul>	Dr. Femi Ajani
11:10- 11:50	<b>Spinal Dysraphism and Tethered Cord Syndrome</b> <ol style="list-style-type: none"> <li>1. To recognize and identify the following pediatric spine malformations                             <ul style="list-style-type: none"> <li>• Spinal Dysraphism</li> <li>• Tethered Cord Syndrome</li> <li>• Split Cord Syndrome</li> </ul> </li> </ol> To explain the surgical management for the above.	Dr. Albert Tu
11:50- 12:30	<b>Case discussions</b>	Dr. Femi Ajani/Dr. Albert Tu
12:30-13:40	<b>LUNCH</b>	
13:40- 15:00	<b>HOT SEAT SESSION</b>	Dr. Adrianna Ranger/Dr. David McAuley/Dr. Albert Tu
15:00 – 15:20	<b>BREAK</b>	
15:20 – 16:00	<b>Case Presentations – Pediatric Spine and Other cases</b>	Dr George Ibrahim
16:00 – 16:40	<b>Craniosynostosis and Craniofacial Anomalies</b> <ul style="list-style-type: none"> <li>• Be able to list the main categories of craniosynostosis</li> <li>• Be able to list the common syndromic types of congenital craniofacial anomalies and their distinguishing features</li> <li>• Be able to discuss timing and surgical decision making in the management of craniofacial anomalies and craniosynostosis</li> <li>• Be able to describe an operation for craniosynostosis</li> </ul>	Dr. David McAuley

16:40 – 17:30	<b>Chiari malformation and syringomyelia</b> <ul style="list-style-type: none"> <li>• Describe the definition and classification of “Chiari Malformations”</li> <li>• Describe Syringomyelia</li> <li>• Explain the association of Chiari I malformation and Syringomyelia and the pathophysiological theories explaining this</li> <li>• Choose appropriate therapy of Chiari I malformation with or without syringomyelia</li> </ul>	Dr George Ibrahim
17:30- 17:40	<b>BREAK</b>	
17:40 – 18:20	<b>Pediatric Functional Neurosurgery</b> <ul style="list-style-type: none"> <li>• Epilepsy</li> <li>• Spasticity</li> <li>• Pain</li> </ul>	Dr George Ibrahim
18:20	<b>Closing remarks and wrap up</b>	Dr. Charles Agbi Dr. Fahad Alkherayf Dr Safraz Mohammed



**The Canadian Neurosurgical Society**  
**Soci t  canadienne de neurochirurgie**



**ANCHOR**  
orthopedics

***Baxter***



**The Canadian Neurosurgical Society  
Société canadienne de neurochirurgie**



uOttawa

Division of Neurosurgery



**Medtronic**

# stryker



Seeing beyond