

8th Annual Ottawa Neurosurgery Review Course
February 1 – 8, 2020
Seminar Schedule

Saturday, February 1, 2020

Time	Topic and Learning Objectives	Speaker
07:00 – 07:40	CONTINENTAL BREAKFAST	
07:40 – 07:50	WELCOME and OPENING REMARKS	Dr. Charles Agbi
07:50 – 08:00	Overview of the Week: Didactic sessions and Case Discussions	Dr. Fahad AlKherayf
08:00 – 08:10	Overview of the “Hot Seat” sessions	Dr. Safraz Mohammed
08:10 – 08:20	Q’s and A’s about the Course	
08:20 – 09:00	Imaging Techniques for Intra-Axial Brain Tumours <ul style="list-style-type: none"> • Review advanced imaging techniques for intra-axial tumours Brief primer on MRI sequences • Recognize imaging patterns of CNS neoplasms and mimicking diseases • Recognize the radiological features of radiation necrosis and tumor 	Dr. Thanh Nguyen
09:00 – 09:40	Imaging Techniques for Extra-Axial Brain Tumours <ul style="list-style-type: none"> • Review advanced imaging techniques for extra-axial tumours • Be able to identify different extra-axial tumours on radiological images 	Dr. Thanh Nguyen
09:40 – 10:20	Stereotactic Radiosurgery Primer for Neurosurgeons <ul style="list-style-type: none"> • Define the concept of stereotactic radiosurgery • Explain basic radiobiology principles related to radiosurgery • Identify the role of radiosurgery in the management of common neurosurgical conditions: <ol style="list-style-type: none"> 1. brain metastases 2. meningiomas 3. vestibular schwannomas 4. AVMs 5. trigeminal neuralgia 	Dr. David Mathieu
10:20 – 10:40	REFRESHMENT BREAK	
10:40 – 11:20	Anatomy and physiology of the thalamus and basal ganglia <ul style="list-style-type: none"> • To describe & draw the anatomy of the basal ganglia & thalamus 	Dr. Zelma Kiss
11:20 – 12:00	Anatomy & Physiology of the Limbic System and Cerebellum <ul style="list-style-type: none"> • To illustrate and draw anatomy of the limbic system including connections of hippocampal formation, Papez circuit, amygdala; and their role in memory, emotion & neurosurgery 	Dr. Zelma Kiss
12:00 – 12:40	Peripheral Nerve Entrapment Syndrome <ul style="list-style-type: none"> • 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. 	Dr. Rick Moulton

- Describe the pathology and pathophysiology of peripheral nerve

12:40 – 13:30	LUNCH	
13:30 – 15:00	HOT SEAT: Dr. Mathieu, Dr. Kiss – 45 Minutes Each	
15:00 – 15:40	Group Case Presentation/Discussion with Dr. Algahtani/Dr. Kheshaifati	
15:40 – 16:00	REFRESHMENT BREAK	
16:00 – 16:40	Cranial Nerves: Review I	Dr. Charles Agbi
	<ul style="list-style-type: none"> • Describe the central connections of cranial nerves I, III, IV, V and VI • Discuss the clinical aspects of the neurophysiology • Discuss the surgical significance of their course and distribution • List surgical lesions associate with these nerves 	
16:40 – 17:20	Cranial Nerves: Review II	Dr. Charles Agbi
	<ul style="list-style-type: none"> • Describe the central connections of cranial nerves VII, VIII, IX, X, XI and XII • Discuss the clinical aspects of the neurophysiology • Discuss the surgical significance of their course and distribution • List surgical lesions associate with these nerves 	
17:20 – 18:00	Group Case Presentation/Discussion with Dr. Algahtani/Dr. Kheshaifati	
18:00 – 18:40	Q's and A's	
18:40 – 19:00	Evaluations and WRAP UP	

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Seminar Schedule

Sunday, February 2, 2020

Time	Topic and Learning Objectives	Speaker
07:00 – 07:30	CONTINENTAL BREAKFAST	
07:30 – 07:40	Housekeeping/Announcements	Dr. Fahad AlKherayf
07:40 – 08:20	Minimally Invasive Approaches in Spine Surgery: General Principles <ul style="list-style-type: none"> • Describe the indications and contraindications for minimally invasive techniques in spinal surgery • Discuss the role of technology in minimally invasive spine surgery • Be able to describe the planning and placement of thoracolumbar pedicle screws using minimally invasive techniques 	Dr. Safraz Mohammed
08:20 – 09:00	Chordomas and Chondrosarcomas: Current Management <ul style="list-style-type: none"> • List differences between chordoma & chondrosarcoma • Describe the current classification of chordomas/chondrosarcomas • Describe how this guides current management • Generate a comprehensive list of current primary and adjuvant treatment options 	Dr. Franco DeMonte
09:00 – 09:40	Meningiomas of the Anterior and Middle Skull Base <ul style="list-style-type: none"> • Identify the common sites for meningioma formation along the anterior and middle skull base • Describe the most common symptoms associated with these tumors. • Discuss the natural history of meningiomas of the anterior and middle skullbase • Describe treatment approaches to tumors of the Anterior and Middle Skull base 	Dr. Franco DeMonte
09:40 – 10:20	Anatomy and Physiology of the Spine and Spinal Cord I <ul style="list-style-type: none"> • Describe the bony anatomy of the various regions of the spine • Describe the paraspinal muscles and their attachments • Discuss the anatomical basis for the various surgical approaches to the spine 	Dr. Safraz Mohammed
10:20 – 10:40	REFRESHMENT BREAK	
10:40 – 11:20	Anatomy and Physiology of the Spine and Spinal Cord II <ul style="list-style-type: none"> • Describe the blood supply of the spinal cord • Be able to draw the cross-sectional anatomy of the spinal cord at the various levels • Describe the function of the major spinal cord pathways 	Dr. Safraz Mohammed
11:20 – 12:00	Carotid Stenosis: What you need to know <ul style="list-style-type: none"> • To be able to list the clinical indications for extracranial carotid artery reconstruction. • Be able to discuss the importance of timing of carotid artery reconstruction • Be able to describe the current Canadian Guidelines regarding carotid artery reconstruction 	Dr. Howard Lesiuk

12:00 – 12:40	Imaging of the Spine/Spinal Cord I <ul style="list-style-type: none"> Identify common pathological conditions on radiological images of the spine Be able to describe the indications for the various imaging modalities for the spine and spinal cord 	Dr. Vered Tsehmaister-Abitbul
12:40 – 13:30	LUNCH	
13:30 – 15:00	HOT SEAT: Dr. Mohammed/Dr. DeMonte 45 Minutes Each	
15:00 – 15:40	Imaging of the Spine II: Neoplastic <ul style="list-style-type: none"> Evaluate epidural pathologies using a case-based approach. Analyze findings of spine infection and its mimics. Identify key imaging findings of degenerative spine. Classify common patterns of spine trauma. 	Dr. Nader Zakhari
15:40 – 16:00	REFRESHMENT BREAK	
16:00 – 16:40	Preparing for the Certification Exam: A recent Grad Experience I <ul style="list-style-type: none"> Describe the examination process for both the written and oral exam. Create a study schedule that incorporates personal learning and staff-supported practice sessions. Develop a list of tools and activities for coping with stress. 	Dr. Idara Edem
16:40 – 17:20	Epidemiology, Genetics, Molecular Biology of Intracranial Aneurysms, Management of Unruptured Intracranial Aneurysms <ul style="list-style-type: none"> List three genetic syndromes associated with the development of brain aneurysms List three molecules involved in the pathogenesis of aneurysms List three histological features of aneurysm formation Name three aneurysm features that can influence risk of rupture 	Dr. Alim Mitha
17:20 – 18:00	Surgical Management of Ruptured Intracranial Aneurysms <ul style="list-style-type: none"> To describe the rationale for the treatment of ruptured and unruptured aneurysms Select the appropriate therapeutic strategy(s) for the treatment of an aneurysm. List the risks associated with treatment and the therapeutic measures to minimize such risks. To recognize the requirement for multidisciplinary expertise in the management of cerebral aneurysms. 	Dr. Alim Mitha
18:00 – 18:40	Group Case Presentation/Discussion with Dr. Algahtani/Dr. Kheshaifati	
18:40 – 19:00	Q's and A's	
19:00 – 19:10	Evaluations - WRAP UP	

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Seminar Schedule

Monday, February 3, 2020

Time	Topic and Learning Objectives	Speaker
07:00 – 07:30	CONTINENTAL BREAKFAST	
07:30 – 07:40	Housekeeping/Announcements	Dr. Safraz Mohammed
07:40 – 08:20	<p>Critical Care Management of TBI: What Should We Measure, When and Why</p> <ul style="list-style-type: none"> • Describe the patient population that may benefit from monitoring • Demonstrate the physiologic processes we can measure • Review the role and key measures of monitoring in ICU management of TBI <ul style="list-style-type: none"> ➢ ICP monitoring ➢ CPP <p>Cerebrovascular Autoregulation</p>	Shane English
08:20 – 09:00	Skull Base Meningioma	Dr. Fahad Alkherayf
09:00 – 09:40	Case Presentations	Dr. Fahad Alkherayf
09:40 – 10:20	<p>Craniopharyngiomas</p> <ul style="list-style-type: none"> • Be able to describe the embryology and epidemiology of craniopharyngioma • List the common symptoms and signs, and imaging features • List the surgical approaches and be able to describe the details of two (2) common approaches • Discuss the prognosis and outcome of this condition 	Dr. Fahad Alkherayf
10:20 – 10:40	REFRESHMENT BREAK	
10:40 – 11:20	<p>Craniosynostosis and Craniofacial Anomalies</p> <ul style="list-style-type: none"> • Be able to list the main categories of craniosynostosis • Be able to list the common syndromic types of congenital craniofacial anomalies and their distinguishing features • Be able to discuss timing and surgical decision making in the management of craniofacial anomalies and craniosynostosis • Be able to describe an operation for craniosynostosis 	Dr. David McAuley
11:20 – 12:00	<p>Surgical Management of Pituitary Tumours/ Sellar Lesions</p> <ul style="list-style-type: none"> • Identify the indications for surgery in pituitary tumours • Enumerate the surgical options and their rationales • Describe the transnasal endoscopic removal of pituitary lesions • Discuss the outcomes including challenges and complications 	Dr. Charles Agbi
12:00 – 12:40	Case Presentations	Dr. Albert Tu
12:40 – 13:30	LUNCH	
13:30 – 15:00	HOT SEAT: Dr. Tu/Dr. Alkherayf 45 Minutes Each	
15:00 – 15:40	Movement Disorders: Pathophysiology and Surgical Management with DBS	Dr. Suneil Kalia

- List the pathological and molecular differences between neurodegenerative diseases including movement disorders, motor neuron disorders and cognitive disorders
- Explain the importance of non-motor features of Parkinson's Disease and provide examples of each
- 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

15:40 – 16:00 REFRESHMENT BREAK

16:00 – 16:40 **Group Case Presentation/Discussion with Dr. Algahtani/Dr. Kheshaifati**

16:40 – 17:20 **Pituitary tumours: The Endocrinologist's Perspective** Dr. Mary-Anne Doyle

- To identify the clinical and laboratory findings important in the initial work-up and follow-up of patients with pituitary adenomas
- Interactive Case-based Seminar

17:20 – 18:00 Q's and A's

18:00 – 18:40 **Evaluations - WRAP UP**

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Tuesday, February 4, 2020

Time	Topic and Learning Objectives	Speaker
07:00 – 07:30	CONTINENTAL BREAKFAST	
07:30 – 07:40	Housekeeping/Announcements	
07:40 – 08:20	The Visual Pathways I <ul style="list-style-type: none"> • Describe the anatomy of the visual pathways including the main connections • Describe the main clinical conditions associated with dysfunction in the visual pathways Discuss illustrative cases with visual pathway conditions	Dr. Vivek Patel
08:20 – 09:00	The Visual Pathways II <ul style="list-style-type: none"> • Describe the anatomy of the visual pathways including the main connections • Describe the main clinical conditions associated with dysfunction in the visual pathways • Discuss illustrative cases with visual pathway conditions 	Dr. Vivek Patel
09:00 – 09:40	Angiographic Anatomy of Intracranial Arteries, Veins and Sinuses. Common Anatomical Variants <ul style="list-style-type: none"> • Be able to identify the major intracranial vessels on arteriographic images • Be able to identify the major veins and the dural venous sinuses on angiographic images • Be able to identify and name the common anatomical variants of the intracranial vasculature 	Dr. Evgueni Kouznetsov
09:40 – 10:20	Endovascular Management of Stroke and Carotid Occlusive Disease: What You Should Know <ul style="list-style-type: none"> • Describe the steps in the emergency room assessment and early management of acute stroke • Enumerate the indications and contraindications for interventional neuroradiological management of acute stroke • List the currently available endovascular techniques for acute stroke management • Discuss the indications for surgery in acute stroke 	Dr. Evgueni Kouznetsov
10:20 – 10:40	REFRESHMENT BREAK	
10:40 – 11:20	Vascular Malformations of the Brain and Spinal Cord: AVM's and DAVF's I <ul style="list-style-type: none"> • Discuss the epidemiology and clinical features of AVM's • Describe the surgical treatments of a ruptured AVM • Describe the classification and treatment options for AVM's 	Dr. Julian Spears
11:20 – 12:00	Vascular Malformations of the Brain and Spinal Cord: AVM's and DAVF's I <ul style="list-style-type: none"> • Discuss the epidemiology and clinical features of AVM's • Describe the surgical treatments of a ruptured AVM 	Dr. Julian Spears

	<ul style="list-style-type: none"> Describe the classification and treatment options for AVM's 	
12:00 – 12:40	Vascular cases for discussion	Dr. Spears
12:40 – 13:30	LUNCH/Presentation by Sun Life Financial	
13:30 – 15:00	HOT SEAT: Dr. Spears/Dr. Kouznetsov	
15:00 – 15:40	Intraoperative Neurophysiological Monitoring I	Dr. Susan Morris
	<ul style="list-style-type: none"> Describe intraoperative neurophysiological monitoring ((IONM) techniques and their usefulness Describe neurophysiological mapping techniques and their usefulness Describe the limitations of IONM and neurophysiological mapping 	
15:40 – 16:00	REFRESHMENT BREAK	
16:00 – 16:40	Intraoperative Neurophysiological Monitoring II	Dr. Susan Morris
	<ul style="list-style-type: none"> 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). Compare and contrast TcMEPs and D-wave potentials with specific reference to spinal cord tumour resection surgery. 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"> Spine deformity correction Intradural spinal cord tumour resection Eloquent cortex tumour resection Vestibular Schwannoma resection Peripheral nerve/brachial plexus repair List three non-surgical things that can cause a significant deterioration of TcMEP/SSEP signal amplitude. <ul style="list-style-type: none"> Explain why total intravenous anesthesia (TIVA) is generally preferred over halogenated agents when employing TcMEP monitoring. 	
16:40 – 17:20	Neuroanesthesia	Dr. Tom Polis
	<ul style="list-style-type: none"> Be able to decide the technique of anesthesia for brain mapping procedures and those requiring intraoperative neurophysiological monitoring. Be able to discuss the options available for postoperative pain management. List the common anaesthetic agents utilized in neurosurgery and their indications and relative merits. 	
17:20 – 18:00		
18:00 – 18:40		
18:40 – 19:00	Q's and A's	
19:00 – 19:10	Evaluations - WRAP UP	

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Wednesday, February 5, 2020

Time	Topic and Learning Objectives	Speaker
07:00 – 07:30	CONTINENTAL BREAKFAST	
07:30 – 07:40	Housekeeping/Announcements	
07:40 – 08:20	Stroke: An Update <ul style="list-style-type: none"> • Examine a case study of a stroke patient and determine treatment options. • Relate the importance of neurological examination in hyperacute stroke management. 	Dr. Grant Stotts
08:20 – 09:00	Group Case Presentation/Discussion with Dr. Algahtani/Dr. Kheshaifati	
09:00 – 09:40	Molecular Biology and Genetics of Brain Tumours: Current Concepts and Therapeutic Implications <ul style="list-style-type: none"> • Identify the new WHO classification • Realize the prognostic impact for the molecular classification of gliomas • Discuss the rationale for the superiority of the molecular classification over the morphological classification in the current WHO schema • Anticipate how this will eventually impact clinical practice 	Dr. David Fortin
09:40 – 10:20	Surgery for Malignant Primary Brain Tumours <ul style="list-style-type: none"> • Describe dynamics of glial tumour growths and infiltration, and the role of surgery in negating these phenomenon's • To better define the role of surgery in assisting adjuvant treatment and impacting clinical surrogates in relation to molecular subtyping • To clarify the role and impact of technological advancements in assisting gross total resection, and their impact on clinical surrogates. 	Dr. David Fortin
10:20 – 10:40	REFRESHMENT BREAK	
10:40 – 11:20	Pathology of Non-Glial Tumours of the CNS <ul style="list-style-type: none"> • Recognize the key macroscopical and histological features of the most frequent extra-axial tumor, peripheral nervous system tumors and pituitary tumors. • Identify the key morphological elements supporting the WHO classification and grading of the entities presented 	Dr. Gerald Jansen
11:20 – 12:00	Pathology of Intrinsic Primary Tumours of the CNS <ul style="list-style-type: none"> • Be able to describe the new integrated diagnosis in use for Astrocytic and Oligodendroglial tumours. • To be able to identify the role ATRX, and IDH mutation results play in classification of gliomas 	Dr. Gerald Jansen

12:00 – 12:40	Metastatic Brain Tumours: Current Management	Dr. John Sinclair
	<ul style="list-style-type: none"> • Enumerate the currently available treatment options for metastatic brain tumours • Discuss the relative advantages and disadvantages of each treatment option/combination • Discuss the available evidence supporting currently employed the treatment option • Discuss the current guidelines for treatment of these lesions 	
12:40 – 13:30	LUNCH	
13:30 – 15:00	HOT SEAT: Dr. Fortin/Dr. Agbi 45 Minutes Each	
15:00 – 15:40	Radiotherapy for CNS Tumours – Current Concepts	Dr. Vimoj Nair
	<ul style="list-style-type: none"> • Discuss when radiation therapy is indicated for malignant gliomas • Define the current radiation therapy techniques • List the indications of stereotactic radiation/radiosurgery 	
15:40 – 16:00	REFRESHMENT BREAK	
16:00 – 16:40	Chemotherapy for CNS Tumours – Current Concepts	Dr. Garth Nicholas
	Attendees will be able to apply existing literature to decisions about systemic therapy for patients with primary brain tumours.	
16:40 – 17:20	Neuro-ophthalmology Case discussion	Dr. Danah Albreiki
17:20 – 18:00	Q's and A's	
18:00 – 18:40	Evaluations – WRAP UP	
19:00 – 21:00	Social	

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Seminar Schedule

Thursday, February 6, 2020

Time	Topic and Learning Objectives	Speaker
07:00 – 07:30	CONTINENTAL BREAKFAST	
07:30 – 07:40	Housekeeping/Announcements	
07:40 – 08:20	Spinal Biomechanics, Decision Making and surgical Options in Degenerative Spine Disease <ul style="list-style-type: none"> • Define the concept of spinal stability and sagittal balance • Describe “pelvic parameters” in clinical practice • Describe surgical techniques for correcting deformity 	Dr. Sean Christie
08:20 – 09:00	Cervical Spondylosis: Diagnosis and Management <ul style="list-style-type: none"> • Define cervical spondylotic myelopathy, including anatomical changes and pathophysiology • Describe the indications for surgery • Describe surgical options and provide relative indications for each 	Dr. Sean Christie
09:00 – 09:40	Vestibular and other schwannomas Glomus tumours. What you should know <ul style="list-style-type: none"> • Describe the epidemiology and molecular biology of vestibular schwannomas and glomus tumours (including latest thinking) • Enumerate the treatment options for these lesions • Describe the surgical approaches to the treatment of these lesions and their outcomes. 	Dr. Ryojo Akagami
09:40 – 10:20	Spontaneous Intracerebral Haemorrhage: What’s New <ul style="list-style-type: none"> • Describe the pathophysiology of hematoma expansion, hemodynamics & hemostasis • List and discuss the indications for ICH surgery • List the steps utilized in preventing complications of ICH 	Dr. Dar Dowlatshahi
10:20 – 10:40	REFRESHMENT BREAK	
10:40 – 11:20	Chiari malformation and syringomyelia <ul style="list-style-type: none"> • Describe the definition and classification of “ Chiari Malformations” • Describe Syringomyelia • Explain the association of Chiari I malformation and Syringomyelia and the pathophysiological theories explaining this • Choose appropriate therapy of Chiari I malformation with or without syringomyelia 	Dr. Ronald Pokrupa
11:20 – 12:00	Classification and Management of Thoracolumbar Injuries <ul style="list-style-type: none"> • Describe one practical classification of thoracolumbar injuries in relation to treatment options and outcomes • Describe the key factors that guide decision making in the management of thoracolumbar injuries 	Dr. Scott Paquette

	<ul style="list-style-type: none"> Enumerate treatment options Describe the elements of surgical treatment 	
12:00 – 12:40	Diagnosis, Classification and Management of Subaxial Cervical Spine Injuries	Dr. Richard Fox
	<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 	
12:40 – 13:30	LUNCH	
13:30 – 15:00	HOT SEAT: Dr. Scott Paquette/Dr. Richard Fox 45 Minutes Each	
15:00 – 15:40	O-C1-C2	Dr. Eugene Wai
	<ul style="list-style-type: none"> To be able to identify the various types of C1/C2 injuries and describe the management options for each type Identify common pitfalls in the written and oral exams and how to avoid them, using clinical examples 	
15:40 – 16:00	REFRESHMENT BREAK	
16:00 – 16:40	Management of Peripheral Nerve Injuries	Dr. Line Jacques
	<ul style="list-style-type: none"> Describe the pathophysiology of peripheral nerve injuries Classify these injuries Describe the causes, clinical features and epidemiology Discuss a logical approach to their management 	
16:40 – 17:20	Treatment of Options for Spasticity and CRPS	Dr. Line Jacques
	<ul style="list-style-type: none"> Describe the clinical criteria for the diagnosis and classification of CRPS Enumerate the treatment options for CRPS and list their relative merits and shortcomings List the major causes of spasticity Discuss the steps for identifying surgically treatable spasticity List the neurosurgical options available for the treatment of spasticity 	
17:20 – 18:00	Paediatric Brain Tumours I	Dr. Adrianna Ranger
	<ul style="list-style-type: none"> Discuss the presenting signs of a brain tumor- different childhood age groups; diagnostic workup 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 Describe differences between adults and children in terms of types of tumors and planning surgery Be able to answer typical certification examination type question related to paediatric brain tumours. Main objective 	
18:00 – 18:40	Paediatric Brain Tumours II	Dr. Adrianna Ranger
18:40 – 19:00	Q's and A's	
19:00 – 19:10	Evaluations - WRAP UP	

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Seminar Schedule

Friday, February 7, 2020

Time	Topic and Learning Objectives	Speaker
07:00 – 07:30	CONTINENTAL BREAKFAST	
07:30 – 07:40	Housekeeping/Announcements	
07:40 – 08:20	<p>Childhood Hydrocephalus: Contemporary Management</p> <p>Objectives:</p> <ul style="list-style-type: none"> • At the end of the presentation, participants will be able to • Apply pathophysiological principles to determine the appropriate options for the management of hydrocephalus in the pediatric age group • Utilize the results of clinical trials and registries to guide decision making • Recognize the various clinical presentation of treatment failure 	Dr. Femi Ajani
08:20 – 09:00	<p>Management of convexity, parasagittal, parafalcine and intraventricular meningiomas</p> <ul style="list-style-type: none"> • Evaluate imaging and develop an operative strategy to optimize patient outcome. • Distinguish critical venous anatomy. • Select surgical approaches to minimize eloquent tissue injury. • Anticipate potential pitfalls and consequences. • Formulate follow-up and adjuvant plans. 	Dr. Gary Goplen
09:00 – 09:40	<p>Management Options for Low Grade Gliomas: What's New?</p> <ol style="list-style-type: none"> 1. Be able to explain the pathology and basic molecular biology of low grade gliomas and what distinguishes them from high grade gliomas. 2. Be able to describe the typical presentation of patients with low grade glioma. 3. Be able to interpret the neuro-imaging of patients with low grade glioma. 4. 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
09:40 – 10:20	Case Presentations	Dr. Gary Goplen
10:20 – 10:40	REFRESHMENT BREAK	
10:40 – 11:20	<p>Pathophysiology, Diagnosis and Management of Cerebral Vasospasm</p> <p>Following this lecture, learners will be able to:</p> <ul style="list-style-type: none"> • Select and correctly interpret appropriate investigations in the management of delayed neurological deterioration post-SAH. • List risk factors for cerebral vasospasm and describe epidemiology and outcomes. • Describe current understanding of pathophysiology of vasospasm post-SAH. 	Dr Gwynned Pickett

11:20 – 12:00	<ul style="list-style-type: none"> Choose appropriate therapy for management of cerebral vasospasm. Posterior Fossa Meningiomas <ul style="list-style-type: none"> Be able to identify the key anatomical structures in the posterior cranial fossa Be able to decide which surgical approach is optimal for the presenting lesion Be able to express the safety measure to undertake for surgical procedures in the posterior cranial fossa 	Dr. Kesh Reddy
12:00 – 12:40	CNS Infections: Surgical Considerations <ul style="list-style-type: none"> Be able to discuss the current trends in the management of surgical infectious disorders of the nervous system Enumerate and discuss the treatment choices available for surgical infectious diseases of the nervous system and make informed decisions as to which treatment to offer in specific situations Be able to discuss the global variations in the nature of CNS infections 	Dr. Kesh Reddy
12:40 – 13:30	LUNCH	
13:30 – 14:10	Adult Hydrocephalus: Diagnosis and Management <ul style="list-style-type: none"> Describe the clinical presentation of adult hydrocephalus Discuss the epidemiology of hydrocephalus in adults Enumerate the steps in the diagnosis of NPH Discuss the treatment techniques and challenges 	Dr. Mark Hamilton
14:10 – 14:50	Management of Intraventricular / Pineal Region Tumours <ul style="list-style-type: none"> Compile a comprehensive list of the different types of pineal region tumours and intraventricular tumours Describe the steps used to establish the diagnosis List the treatment options for pineal region tumours Describe the surgical approaches to the pineal region Describe open and endoscopic approaches to intraventricular tumours 	Dr. Mark Hamilton
15:00 – 15:40	Surgery for Epilepsy: What You Should Know <ul style="list-style-type: none"> Explain indications for the surgical treatment of epilepsy Review surgical anatomy relevant to temporal lobe epilepsy Define medically refractory epilepsy Review basic work-up of epilepsy patients, including neuropsychology evaluations 	Dr. David Clarke
15:40 – 16:00	REFRESHMENT BREAK	
16:00 – 16:40	Spinal Cord Injury: Clinical considerations <ul style="list-style-type: none"> Describe the cornerstones for the treatment of acute spinal cord injury Explain the evidence behind therapeutic strategies for spinal cord injury Outline priorities of spinal cord injury in the emergency setting 	Dr. John Hurlbert
16:40 – 17:20	Spinal Cord and Peripheral Nerve Tumours <ul style="list-style-type: none"> Demonstrate competency in the classification, imaging characteristics, surgical extirpation and differential diagnosis of intramedullary spinal cord tumors Demonstrate competency in the classification, imaging characteristics, surgical removal of peripheral nerve sheath tumors Develop a standardized protocol for answering neurosurgical oral board questions 	Dr. Allan Levi

17:20 – 18:00	Tips for the Oral Exams:	Dr. Alan Levi
18:00 – 18:40	Neuromodulation for Pain At the end of this session, participants should be able to <ul style="list-style-type: none"> • Describe and draw the pain pathways • Discuss the role of surgery in pain modulation • List the currently available techniques for pain modulation including their indications and limitation • Discuss the physiological basis for the common pain modulation techniques utilized by neurosurgeons 	Dr. Michel Prud'Homme
18:40 – 19:00	Q's and A's	
19:00 – 19:10	Evaluations - WRAP UP	

SATURDAY FEBRUARY 8: OSCE EXAMINATION
C2 CLINIC, OTTAWA HOSPITAL CIVIC CAMPUS
07:30 – 16:30

This event is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, and approved by the University of Ottawa's Office of Continuing Professional Development. You may claim a maximum of 66.50 hours (credits are automatically calculated).

La présente activité est une activité d'apprentissage collectif agréée (section 1), au sens que lui donne le programme de Maintien du certificat du Collège royal des médecins et chirurgiens du Canada; elle a été approuvée par le Bureau de formation professionnelle continue de l'Université d'Ottawa. Vous pouvez déclarer un maximum de 66,50 heures (les crédits sont calculés automatiquement).

Our Corporate Sponsors

