Saturday February 5th

07:50 - 08:00	Introductory Remarks	Dr. Charles Agbi
		Dr Safraz Mohammed
08:00 – 08:40	Minimally Invasive Approaches in Spine Surgery: General Principles	Dr. Safraz Mohammed
	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	
08:50 - 09:30	Case Presentations	Dr. Safraz Mohammed
09:40 - 10:20	Epidemiology, Genetics, Molecular Biology of	Dr. Alim Mitha
	Intracranial Aneurysms. Management of Unruptured	
	Intracranial Aneurysms.	
	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	
10:30 - 11:10	Surgical Management of Ruptured Intracranial Aneurysms	Dr. Alim Mitha
	To describe the rationale for the treatment of ruptured	
	and unruptured aneurysms	
	Select the appropriate therapeutic strategy(ies) for the	
	treatment of an aneurysm	
	To describe the risks associated with the treatment	
	and therapeutic measures to minimize such risks	
	 Describe the rationale for a multidisciplinary approach 	
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11:10 – 11:40	to the management of aneurysms BREAK	
11:10 – 11:40	Case Discussions/Interactive Session	Dr. Mazen Alotabi
12:40 – 13:30	LUNCH	DI. MAZCII AIUGUI
13:30 – 15:00	HOT SEAT Sessions	Dr. Alim Mitha/ Dr.
		Charles Agbi
15:00 – 15:20	BREAK	
15:20 – 16:00	Case Discussions/Interactive Sessions	Dr. Abdulhadi Algahtani
16:00 – 16:40	Endovascular Treatment Options for Ruptured Intracranial	Dr. Gwynedd Pickett
	Aneurysms	
	Discuss the scientific basis for choosing treatment	
	options for ruptured aneurysms	
	List three different endovascular techniques for	
	ruptured aneurysms	
	Discuss commonly used adjuvant techniques for	
	dealing with complex aneurysms	

	Describe a grading system for measuring treatment	
	outcomes and the implications	
16:40 - 17:30	Pathophysiology, Diagnosis and Management of	Dr. Gwynedd Pickett
	Cerebral Vasospasm	
	Following this lecture, learners will be able to:	
	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.	
	 Choose appropriate therapy for management of cerebral 	
	vasospasm.	
17:40 - 18:20	Stroke Update: Acute Medical and Interventional	Dr. Robert Fahed
	Neuroradiology Management	
	 Examine a case study of a stroke patient and determine 	
	treatment options.	
	Relate the importance of neurological examination in	
	hyperacute stroke management.	



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10th Annual Ottawa Neurosurgery Review Course February 5-12, 2022 Course Schedule Sunday February 6th

08:00 - 08:40	Pathology of Non-Glial Tumours of the CNS	Dr. Gerald Jansen
	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	
08:50 - 09:30	Pathology of Intrinsic Primary Tumours of the CNS	Dr. Gerald Jansen
	Gain knowledge of 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	
09:40 - 10:20	Molecular Biology and Genetics of Brain Tumours:	Dr. David Fortin
	Current Concepts and Therapeutic Implications	
	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	
10:30 - 11:10	Surgery for Malignant Primary Brain Tumours	Dr. David Fortin
	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.	
11:10-11:40	BREAK	
11:40 – 12:40	Case Discussions/Interactive Sessions	Dr. Paul Kongkham
12:40 – 13:30	LUNCH	
13:30 – 15:00	HOT SEAT Sessions	Dr. David Fortin/Dr. Joe
		Megyesi
15:00 – 15:40	BREAK	
15:40 – 16:00	Case Presentations	Dr. Joe Megyesi
16:00 - 16:40	Management Options for Low Grade Gliomas: What's	Dr. Joe Megyesi
	New?	
	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.	
16:40 – 17:30	Brain Metastases	Dr Paul Kongkham
10.40 - 17.50	Enumerate the currently available treatment options for	Di i dui Kongkilani
	metastatic brain tumours	
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	 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 	
17:40 – 18:20	 Stereotactic Radiosurgery Primer for Neurosurgeons 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: brain metastases meningiomas vestibular schwannomas AVMs trigeminal neuralgia 	Dr Paul Kongkham

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Monday February 7th

08:00 - 08:40	Pituitary tumours: The Endocrinologist's Perspective on	Dr Mary-Ann Doyle
	Diagnosis and Management	
	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	
08:50 - 09:30	Surgical Management of Pituitary Tumours/	Dr Charles Agbi
	Sellar/Suprasellar Lesions	
	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	
09:40 - 10:20	Convexity and Posterior Fossa Meningiomas	Dr. Kesh Reddy
	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	
10:30 – 11:10	Skull Base Meningiomas	Dr. Fahad AlKherayf
	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 and treatment of meningiomas of the	
	anterior and middle skull base	
11:10 – 11:40	BREAK	
11:40 - 12:40	Case Discussions/Interactive Sessions	Dr. Saad Alqahatani
12:40 - 13:30	LUNCH AND LEARN- Presentation by Sponsor	
13:30 – 15:00	HOT SEAT Sessions	Dr. Kesh Reddy/ Dr. Fahad Alkherayf
15:00 – 15:40	BREAK	
15:40 – 16:00	Case Presentations	Dr. Vimoj Nair
16:00 – 16:40	Radiotherapy for CNS Tumours – Current Concepts	Dr. Vimoj Nair
	discuss when radiation therapy is indicated for various benign and malignant tumors	
	describe radiation therapy approaches for malignant gliomas	
	define the current radiation therapy techniques	
	list the indications of stereotactic radiation/radiosurgery	
16:40 – 17:30	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	
17:40 – 18:20	Vestibular and other schwannomas Glomus tumours.	Dr. Ryojo Akagami
17.70 - 10.20		Di. Kyojo Akagaiiii
	What you should know Describe the epidemiology and molecular biology of vestibular schwannomas	
	Describe the epidemiology and molecular biology of vestibular schwannomas and glomus tumours (including latest thinking)	
	Enumerate the preop investigations and treatment options for these lesions	
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•	Describe the surgical approaches to the treatment of these lesions	
	and their outcomes.	

10th Annual Ottawa Neurosurgery Review Course February 5-12, 2022 Course Schedule Tuesday February 8th

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08:00 - 08:40	Classification and Management of lumbar Spondylolisthesis	Dr Carlo Santaguida
	 Classification of lumbar spondylolisthesis in relation to treatment options and outcomes 	
	Decision making in the management of thoracolumbar injuries	
	Enumerate treatment options	
	Describe the elements of surgical treatment	
08:50 - 09:30	O-C1-C2	Dr. Eugene Wai
	To be able to identify the various types of C1/C2 injuries and	8
	describe the management options for each type	
	Identify common pitfalls in the written and oral exams and	
	how to avoid them, using clinical examples	
09:40 - 10:20	Spinal Cord Injury: Clinical considerations	Dr. John Hurlbert
	Be familiar with 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	
10:30 - 11:10	Diagnosis, Classification and Management of Subaxial	Dr. Richard Fox
10.50 11.10	Cervical Spine Injuries	Di. Richard I UA
	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	
11:10 – 11:40	BREAK	
11:40 – 12:40	Case Discussions/Interactive Sessions	Dr. Richard Fox
12:40 – 13:30	LUNCH	D G 11 D 11 /D
13:30 – 15:00	HOT SEAT Sessions	Dr. Scott Paquette/Dr. Allan Levi
		Allali Levi
15.00 - 15.40	RREAK	
15:00 – 15:40 15:40 – 16:00	BREAK Case Presentations	Dr. Scott Paguette
15:40 – 16:00	Case Presentations	Dr. Scott Paquette Dr. Scott Paquette
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15:40 – 16:00	Case Presentations Classification and Management of Thoracolumbar Injuries	
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Wednesday February 9th

08:00 - 08:40	Intraoperative Neurophysiological Monitoring I	Dr. Susan Morris
	Describe intraoperative neurophysiological monitoring ((IONM)	
	techniques and their usefulness	
	Describe neurophysiological mapping techniques and their	
	usefulness	
	Describe the limitations of IONM and neurophysiological	
08:50 - 09:30	mapping	Dr. Susan Morris
08.30 – 09.30	 Intraoperative Neurophysiological Monitoring II Compare and contrast the strengths, weaknesses and overall usefulness of the two primary modalities used in intraoperative 	DI. Susan Wollis
	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 monitoring and/or mapping modalities you	
	would employ during the below listed procedures and clearly	
	state the rationale for your choice(s):	
	o Spine deformity correction	
	o Intradural spinal cord tumour resection	
	o Eloquent cortex tumour resection	
	o Vestibular Schwannoma resection	
	o Peripheral nerve/brachial plexus repair	
	 List three non-surgical things that can cause a significant 	
	deterioration of TcMEP/SSEP signal amplitude.	
	Explain why total intravenous anesthesia (TIVA) is generally	
	preferred over halogenated agents when employing TcMEP	
	monitoring.	
09:40 - 10:20	Critical Care Management of TBI: What Should We	Dr. Shane English
09.40 - 10.20	Measure, When and Why	Di. Shane English
	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	
	> ICP monitoring	
	▶ CPP	
	Cerebrovascular Autoregulation	
10:30 - 11:10	BREAK	
11:40 - 12:40	Case Discussions/Interactive Sessions	Dr. Lissa Peeling
12:40 - 13:30	LUNCH AND LEARN - Presentation by Integra	
1330	Greetings from Dr. Sudhir Sundaresan	
	Wilbert J. Keon Professor	
	Chair, Department of Surgery, University of Ottawa	

13:45 – 15:00	HOT SEAT Sessions	Dr. Safraz Mohammed / Dr Carlo Santaguida
15:00 - 15:40	BREAK	
15:40 – 16:40	Case Presentations – Cranial and Spinal Angiogram anatomy (normal and pathological) with Cases	Dr Lissa Peeling
16:40 – 17:30	Neuro-ophthalmology Case discussion	Dr. Danah Albreiki
17:40 – 18:20	Neuroanesthesia 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.	Dr. Adele Budiansky

Stryker

Thursday February 10th

08:00 - 08:40	Movement Disorders: Pathophysiology and Surgical	Dr. Suneil Kalia
	Management with DBS	
	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 Pieces and provide acquires of each.	
	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	
08:50 - 09:30	Carotid Endarterectomy: What You Should Know	Dr. Howard J Lesiuk
00.30 - 07.30	To be able to list the clinical indications for extracranial carotid artery	Di. Howard 3 Lesiuk
	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	
09:40 – 10:20	Surgery for Epilepsy: What You Should Know	Dr. David Clarke
	Explain indications for the surgical treatment of epilepsy	
	Review surgical anatomy relevant to temporal lobe epilepsy	
	Know the definition of medically refractory epilepsy	
	Review basic work-up of epilepsy patients, including	
10.20 11.10	neuropsychology evaluations	D. W. M. D. H.
10:30 – 11:10	Neuromodulation for Pain	Dr. Keith MacDougall
	At the end of this session, participants should be able to 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 	
11:10 – 11:40	BREAK	
11:40 - 12:40	Case Discussions/Interactive Sessions	Dr Keith MacDougall
12:40 - 13:30	LUNCH AND LEARN - Presentation by Sponsor	
13:30 - 15:00	HOT SEAT Sessions	Dr Andrew Jack
15:00 - 15:20	BREAK	
15:20 - 16:00	Cranial – Functional Neurosurgery Anatomy and physiology	Dr Zelma Kiss
	of the thalamus and basal ganglia	
16:00 – 16:40	Spontaneous Intracerebral Haemorrhage: What's New	Dr. Dar Dowlatshahi
	Describe the pathophysiology of hematoma expansion, hemodynamics &	
	hemostasis	
	List and discuss the indications for ICH surgery	
16:40 – 17:30	List the steps utilized in preventing complications of ICH Management of Davin have I News Injuries	Dr. Line Ineques
10:40 - 17:30	Management of Peripheral Nerve Injuries	Dr. Line Jacques
	 Describe the pathophysiology of peripheral nerve injuries Classify these injuries 	
	Describe the causes, clinical features and epidemiology	
	Discuss a logical approach to their management	
17:40 – 18:20	Management of Peripheral Nerve Entrapment	Dr. Line Jacques
	Peripheral Nerve Entrapment Syndrome	1
	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.	



10th Annual Ottawa Neurosurgery Review Course February 5-12, 2022 Course Schedule Friday February 11th

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08:00-08:40	Spinal Dysraphism and Tethered Cord Syndrome	Dr. Albert Tu
	1. To recognize and identify the following pediatric spine	
	malformations	
	Spinal Dysraphism	
	Tethered Cord Syndrome	
	Split Cord Syndrome	
00.70 00.20	To explain the surgical management for the above.	D 11: D
08:50 - 09:30	Paediatric Brain Tumours I	Dr. Adrianna Ranger
	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	
	Feel Confident at the Royal College Exam, if you get a question	
09:40 - 10:20	Paediatric Brain Tumours II	Dr. Adrianna Ranger
10:30 - 11:10	Childhood Hydrocephalus: Contemporary	Dr. Femi Ajani
	Management	
	Objectives:	
	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	
11:10 – 11:40	BREAK	
11:40 – 12:40	Case Discussions/Interactive Session	Dr. Femi Ajani/Dr. Albert
12.40 12.20	LUNCH	Tu
12:40 – 13:30 13:30 – 15:00	LUNCH HOT SEAT Sessions	Dr. Adrianna Danaar/Dr.
13:30 – 13:00	HOT SEAT Sessions	Dr. Adrianna Ranger/Dr. David McAuley/Dr. Albert
		Tu
15:00 – 15:40	BREAK	i i u
15:40 – 16:40	Case Presentations – Dr. David McAuley	
16:00 – 16:40	Craniosynostosis and Craniofacial Anomalies	Dr. David McAuley
	Be able to list the main categories of craniosynostosis	, and the second
	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	
16:40 – 17:30	Chiari malformation and syringomyelia	Dr George Ibrahim
	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	
17:40 - 18:20	Pediatric Functional Neurosurgery	Dr George Ibrahim

	EpilepsySpasticityPain	
18:20	Closing remarks and wrap up	Dr Safraz Mohammed





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