13th Annual Ottawa Neurosurgery Review Course
Schedule 8th - 15th February, 2025

Saturday February 8th

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 I** • Be able to identify the key anatomical structures in the management of cranial meningiomas • 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 meningioma surgery	Dr. Kesh Reddy
08:50 – 09:30	**Skull Base and Posterior Fossa Meningiomas** • Be able to identify the key anatomical structures in the posterior cranial fossa and along the anterior and middle skull base • 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
09:40 – 10:20	**Epidemiology, Genetics, Molecular Biology of 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	Dr. Alim Mitha
10:20 - 10:30	**BREAK**	
10:30 – 11:10	**Surgical Management of Ruptured Intracranial Aneurysms** • 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 to the management of aneurysms	Dr. Alim Mitha
11:10- 11:50	**Chordomas and Chondrosarcomas: Current Management** • Describe the pathological differences between chordomas and chondrosarcomas • Describe the role of multi-disciplinary care in the treatment of chordomas and chondrosarcomas • Discuss the oncologic surgical principles for resection of chordomas and chondrosarcomas • List and describe options for surgical management of skull base chordomas and chondrosarcomas	Dr. Idara Edem

11:50- 12:30	**Functional neurosurgery** • Anatomy & Physiology of the Basal Ganglia,Limbic System and Cerebellum 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
12:30-13:40	**LUNCH**	
13:40- 15:00	**HOT SEAT Sessions** • Describe and explain the diagnosis, investigation, and management of common neurosurgical cases	Dr. Alim Mitha
15:00 –15:20	**BREAK**	
15:20 – 16:00	**Endovascular Treatment Options for Ruptured Intracranial 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	Dr. Gwynedd Pickett
16:00 – 16:40	**Pathophysiology, Diagnosis and Management of 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.	Dr. Gwynedd Pickett
16:40 – 17:30	**Imaging Techniques for Intra-Axial Brain Tumours** • 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 recurrence	Dr. Thanh Nguyen
17:30- 18:10	**Imaging Techniques for Extra-Axial Brain Tumours** • Review advanced imaging techniques for extra-axial tumours • Be able to identify different extra-axial tumours on radiological images	Dr. Thanh Nguyen

18:10 – 18:20	**Imaging – Spot diagnosis cases** • Identify the imaging and pathological findings of common neurosurgical cases	Dr Thanh Nguyen