13th Annual Ottawa Neurosurgery Review Course Schedule
8th - 15th February, 2025
Course Location – The Marconi Centre, 1026 Baseline Road, Ottawa

Wednesday February 12th

07:20 – 08:00	Breakfast	
08:00 – 08:40	**Case Presentations I –** Cranial and Spinal Angiogram anatomy (normal and pathological) with Cases	Dr Lissa Peeling
08:50 – 09:30	**Case Presentations II –** Cranial and Spinal Angiogram anatomy (normal and pathological) with Cases	Dr Lissa Peeling
09:40 – 10:20	**Vascular Malformations of the Brain and Spinal Cord: AVM's and DAVF's I** • 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
10:20 - 10:30	**BREAK**	
10:30 – 11:10	**Vascular Malformations of the Brain and Spinal Cord: AVM's and DAVF's II** • 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
11:10 – 11:50	**Intraoperative Neurophysiological Monitoring I** • Describe intraoperative neurophysiological monitoring ((IONM) techniques and their usefulness. • Describe neurophysiological mapping techniques and their usefulness. • Describe the limitations of IONM and neurophysiological mapping	Dr. Susan Morris
11:50 – 12:30	**Intraoperative Neurophysiological Monitoring II** • 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 *monitoring* and/or *mapping* modalities you would employ during the below listed procedures and clearly state the rationale for your choice(s): Spine deformity correction	Dr. Susan Morris
12:30 – 13:40	**LUNCH**	
13:40 – 14:20	**Neuromodulation for Pain** 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	Dr. Alan Chalil

14:20 – 15:00	**Critical Care Management of TBI: What Should We Measure, When and Why**
	• 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.
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		Dr. Shane English

15:00 – 15:20	**BREAK**	
15:20 – 16:40	**HOT SEAT SESSION**	Dr. Safraz Mohammed and Dr. Charles Agbi
16:40 – 17:30	**Stroke Update: Acute Medical and Interventional Neuroradiology Management** • Examine a case study of a stroke patient and determine treatment options. • Relate the importance of neurological examination in hyperacute stroke management.	Dr. Robert Fahed
17:40 – 18:20	**Case Presentations**	Dr Jessica Rabski