

## Critical Care Academic Half Day Seminar Series

### Topic: Managing Neurological Dysfunction

#### Royal College Objectives:

The adult critical care medicine resident must be able to:

- recognize problems in a patient with central nervous system (CNS) crisis and/or an altered level of consciousness;
- institute immediate life-sustaining measures;
- derive a differential diagnosis;
- carry out appropriate neurological examination, and continue with appropriate diagnostic and supportive measures.

Demonstrate knowledge of:

- The toxic, metabolic, structural and infectious causes of altered consciousness;
- Intracranial hypertension (pathophysiology, investigation, monitoring techniques and treatment);
- status epilepticus (pathophysiology, investigation, systemic metabolic consequences and pharmacologic management);
- the clinical diagnosis of brain death and confirmatory investigations involved
- the environmental and drug-related psychopathology associated with critical illness (anxiety, sleep disorders, hallucinations and withdrawal);
- the perioperative management of major neurosurgical procedures.

TOPIC
Physiology of Blood Flow <ul style="list-style-type: none"> <li>▪ Stroke</li> </ul>
Brain Death and Organ Donation <ul style="list-style-type: none"> <li>▪ brain death examination</li> </ul>
Reading CT Head and Spine films <ul style="list-style-type: none"> <li>▪ C-Spine</li> </ul>
Simulator Session
Traumatic Brain Injury : <ul style="list-style-type: none"> <li>▪ ICH</li> <li>▪ DAI</li> <li>▪ prognosis</li> <li>▪ C-Spine injury</li> <li>▪ prognosis</li> </ul>
Cerebral Blood Flow
Status Epilepticus
ICP Monitoring <ul style="list-style-type: none"> <li>▪ How to monitor</li> <li>▪ Who to monitor</li> <li>▪ Which Targets</li> </ul>
Delirium
Non Traumatic CNS Bleeding <ul style="list-style-type: none"> <li>▪ SAH and vasospasm</li> <li>▪ Prognosis</li> </ul>
Tuberculosis <ul style="list-style-type: none"> <li>▪ diagnosis &amp; treatment</li> <li>▪ Infection control precautions</li> </ul>
Neuro-Endocrine Disorders <ul style="list-style-type: none"> <li>▪ Diabetes Insipidous</li> <li>▪ SIADH</li> <li>▪ Cerebral Salt Wasting</li> </ul>
Neuro-Muscular disorders <ul style="list-style-type: none"> <li>▪ Long Term Ventilated Patient</li> <li>▪ ICU Management</li> </ul>