

Course Day ONE:

Date: November 30th 2015, Monday

Chapter: Spine, Trauma and Critical Care

07:15 – 07:30	N. Alshafai , Introduction
07:30 – 07:45	N. Alshafai , How I review neurosurgery? How to prepare for board exams? How to maximize your benefit from the CCN review course?
07:45 – 08:00	N. Alshafai , Biomechanics of the spine
08:00 – 08:45	J. Hurlbert , Decompressing the spine – When and How?
08:45 – 09:30	A. Levi , Reconstructing the spine – When and How?
09:30 – 09:45	Coffee Break
09:45 – 10:30	N. Alshafai , Spinal column tumors- A to Z
10:30 – 11:00	J. Hurlbert , Spinal column trauma (Cervical) - Classification and surgical management
11:00 – 11:30	A. Levi , Spinal column trauma (Thoracolumbar) Classification and surgical management
11:30 – 12:00	J. Hurlbert , Spinal cord injury and beyond
12:00 – 13:00	Lunch Break
13:00 – 13:15	R. Czepko , Spinal column augmentation (Experience vs. Class I evidence)
13:15 – 13:30	A. Levi , Minimally Invasive Spine Surgery (When & Why)
13:30 – 14:00	J. Rossiter , Neuropathology in head injury
14:00 – 15:00	A. Maas , The management of traumatic brain injury I
15:00 – 15:15	N. Alshafai , Case discussion
15:15 – 15:30	Anna Jaron , Stretch Exercises

15:30 – 16:15 **A. Maas**, The management of traumatic brain injury II

Participants will divide into five small groups (They will attend 4 out of 5 stations according to their level of experience)

16:30 – 20:30 **55 minutes each station**
Small Groups
Four cases in each station
Round table Discussions of clinical case scenarios
(Dinner will be served)

Brain Trauma - Station 1:

A. Maas (Antwerp)
MC Wallace (Kingston)

Spine - Station 2:

J. Hurlbert (Calgary)
R. Czepko (Krakow)

Spine Imaging and Pathology – Station 3:

J. Rossiter (Kingston)
L. Alshafai (Toronto)

Spine not for junior residents - Station 4:

A. Levi (Miami)
TBA

Spine for junior residents - Station 5:

M. Cusimano (Toronto)
TBA

20:30

Adjourn

Course Day Two:

Date: December 1st 2015, Tuesday

Chapter: Surgical-anatomy, Skull-base and Neuro-oncology

07:30 – 08:30	J. Rossiter , Brain tumor pathology
08:30 - 09:15	M. Cusimano , Skull base lesions. Cases and pearls from the frontal sinus to the foramen magnum I
09:15 – 09:30	Coffee Break
09:30 - 10:15	M. Cusimano , Skull base lesions. Cases and pearls from the frontal sinus to the foramen magnum II
10:15 – 10:45	W. Van Furth , Skull base lesions. Cases and pearls from the frontal sinus to the foramen magnum III
10:45 – 11:05	N. Alshafai , Sulci and Gyri of the brain
11:05 – 11:15	N. Alshafai , Evaluation of Day 1
11:15 – 11:45	M. Cusimano , The role of radiosurgery in neurosurgery
11:45 – 12:00	E. A. Chiocca , The natural history and the role of genetics in CNS Gliomas
12:00 – 13:00	Lunch Break
13:00 – 13:15	E. A. Chiocca , Brain mapping and awake craniotomy video
13:15 – 14:15	E. A. Chiocca , The surgical management of Gliomas
14:15 – 14:45	T. Krings , Tumor mimics
14:45 – 15:15	E. A. Chiocca , Brain metastasis
15:15 – 15:30	Anna Jaron , Stretch Exercises
15:30 – 16:15	Neuro-oncology cases with expert faculty discussion: Moderators: N. Alshafai Presenters: TBA
Participants will divide into five small groups (Will attend 4 out of 5 stations)	
16:30 – 20:00	55 minutes each station

Small Groups

Four cases in each station

Round table Discussions of clinical case scenarios

(Dinner will be served)

Craniocervical junction - Station 1:

M. Cusimano (Toronto)

J. Hurlbert (Calgary)

Pituitary disorders – Station 2:

W. Van Furth (Leiden)

M. Javapour (Dublin)

Brain tumors Imaging and pathology – differentials to working diagnosis - Station 3:

J. Rossiter (Kingston)

T. Krings (Toronto)

Neuro-oncology not for junior residents - Station 4:

E. A. Chiocca (Boston)

MC Wallace (Kingston)

Neuro-oncology for junior residents - Station 5:

L. Regli (Zurich)

P. Gonzalez (Alicante)

20:00

Adjourn

Course Day Three:

Date: December 2nd 2015, Wednesday

Chapter: Vascular, Endovascular and Radiosurgery

Surgical anatomy and physiology for the vascular neurosurgeon

07:30 – 8:00 **MC Wallace**, The Arterial System

08:00 – 08:30 **T. Krings**, The Venous System

Stroke

08:30 – 09:00 **M.C. Wallace & T. Krings**, Surgical and endovascular management of Stroke

09:00 – 09:30 **L. Regli**, vascular Bypass surgery (Why, When and how)

09:30 – 09:45 **Coffee Break**

10:00 – 11:30 **M. Javapour, M.C. Wallace & T. Krings**, Intra-cerebral Hemorrhage, pearls of brain vascular malformation, Surgical and Endovascular management

11:30 – 11:50 **M.C. Wallace**, Cavernous malformation

11:50 – 12 :00 **N. Alshafai**, Évaluation of Day 2

12:00 – 13:00 **Lunch Break**

13:00 – 14:30 **L. Regli, M.C. Wallace & T. Krings**, Pearls in the management of Aneurysms and Sub arachnoid hemorrhage

14:30 – 15:00 **A. Grotenhuis**,
The Wallace – Cusimano Honorary Lectureship:
Surgical education, the changes in educating neurosurgeons (Past, present and future) & the role of a good mentor in a resident's life.

15:00 – 15:15 **Anna Jaron**, Stretch Exercises

15:15 – 15:45 **T. Krings**, Imaging of Epilepsy

15:45 – 16:15 **Cerebrovascular cases with expert faculty discussion**
Moderators: N. Alshafai
Presenters: TBA

Participants will divide into five small groups (Will attend 4 out of 5 stations)

16:30 – 20:30 **55 minutes each station**
Small Group
Four cases
Round table Discussions
(Dinner will be served)

Vascular - Station 1:
MC Wallace (Kingston)
J. Hurlbert (Calgary)

Skull-base - Station 2:
M. Cusimano (Toronto)
A. Grotenhuis (Nijmegen)

Endovascular - Station 3:
T. Krings (Toronto)
TBA

Vascular not for junior residents – Station 4
L. Regli (Zurich)
J. Schramm (Bonn)

Vascular for junior residents - Station 5:
M. Javapour (Dublin)
S. Elbaba (St. Louis)

20:00 **Adjourn**

21:00 – 24:00 **“Course party”**
Dress code: Semi-formal
Meet your colleagues and faculty from around the world in a relaxed atmosphere and a beautiful lounge in central old city of Krakow

Course Day Four:

Date: December 3rd 2015, Thursday

Chapter: Epilepsy, Neuro-endoscopy and Pediatrics

07:45 – 08:15	J. Rossiter , Pathology in epilepsy
08:15 – 09:00	J. Schramm , Drug resistant epilepsy: Evaluation
09:00 – 09:15	Coffee Break
09:15 – 10:00	J. Schramm , Drug resistant epilepsy: Surgical management
10:00 – 10:15	A. Grotenhuis , Ventricular surgical anatomy
10:15 – 11:00	A. Grotenhuis , Surgical management of Intra-cranial cysts and Intra-ventricular lesions
11:00 – 11:40	P. Steinbok , Pediatric Hydrocephalus
11:40 – 12:00	C. Garel , Pediatric specific Neuroradiology
12:00 – 13:00	Lunch Break
13:00 – 13:20	J. Rossiter , Pediatric specific Neuropathology
13:20 – 14:05	P. Steinbok , The surgical management of Pediatric Brain tumors
14:05 – 14:40	M. Zerah , Chiari-malformation
14:40 – 15:15	M. Zerah , Spinal Dys-raphism
15:15 – 15:30	Anna Jaron , Stretch Exercises
15:30 – 16:00	S. Elbaba , Cranio-facial congenital Disorders
16:00 – 16:15	N. Alshafai , Evaluation of Day 3
16:15 – 16:30	M. Zerah , Vein of Galen malformation

Participants will divide into five small groups (Will attend 4 out of 5 stations)

16:30 – 20:30

55 minutes each station

Small Groups

Four cases in each station

Round table Discussions of clinical case scenarios

(Dinner will be served)

Pediatrics - Station 1

M. Zerah (Paris)

M. Cusimano (Toronto)

Epilepsy in Pediatrics and adults - Station 2:

J. Schramm (Bonn)

P. Steinbok (Vancouver)

Pediatrics pathology-radiology correlation - Station 3:

C. Garel (Paris)

J. Rossiter (Kingston)

Neuroendoscopy not for junior residents – Station 4

A. Grotenhuis (Nijmegen)

M. Tissel (Goteberg)

Pediatrics for junior residents – Station 5:

S. Elbaba (St. Louis)

MC Wallace (Kingston)

20:00

Adjourn

Course Day Five:

Date: December 4th 2015, Friday

Chapter: Functional, Pain, Neurology and Peripheral Nerve Surgery

Peripheral Nerve Surgery

- 07:30 – 08:00 **R. Spinner**, How to do a peripheral nerve clinical examination- illustration
- 08:00 – 08:30 **R. Spinner**, Diagnosis and surgical management of Peripheral nerves (Brachial plexus)
- 08:30 – 09:00 **R. Spinner**, Diagnosis and surgical management of Peripheral nerves (Brachial plexus)
- 09:00 – 09:30 **R. Spinner**, Diagnosis and surgical management of Peripheral nerves (Upper extremities)

09:30 – 09:45 **Coffee Break**

- 09:45 – 10:15 **R. Spinner**, Diagnosis and surgical management of Peripheral nerves (Lumbosacral plexus and Lower extremities)
- 10:15 – 11:15 Peripheral nerve Surgery:
R. Spinner (Rochester)
MC Wallace (Kingston)

11:15 – 12:00 **J Lazarou**, Neurology for the neurosurgeons

12:00 – 13:00 **Lunch Break**

Functional Neurosurgery

- 13:00 – 13:45 **K. Slavin**, Introduction to Surgical anatomy and physiology for the functional neurosurgeon
- 13:45 – 14:30 **K. Slavin**, Surgical management of movement disorders and stereotactic surgery
- 14:30 – 14:45 **TBA**, Case discussion
- 14:45 – 15:00 **Anna Jaron**, Stretch Exercises
- 15:00 – 15:45 **K. Slavin**, Surgical management of pain and spasticity

15:45 – 16:45	Pain and movement disorders Station: K. Slavin (Chicago) P. Steinbok (Vancouver)
16:45 – 17:45	General Neurosurgery Station: J. Lazarou (Toronto) M. Cusimano (Toronto)
17:45 – 18:15	N. Alshafai , Closed meeting for all the participants with the course director (Certificate & feedback distribution to all participants).
18:15 – 20:15	The CCN Review Challenge The participants will be divided into 6 teams
18:15 – 18:30	Buffet Dinner
18:30 – 19:00	Challenge 1 Judges: TBA
19:00 – 19:30	Challenge 2 Judges: TBA
19:30 – 20:00	The Finale (Winner of Challenge 1 vs. Winner of Challenge 2) Judges: TBA
20:00 - 20:15	<u>Winners announcement</u>
20:15	Adjourn , End of Course
21:00 – Open	“End of course party - Night club event” Dress code: Casual

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Day Six (Optional):

Date: **December 5th 2015, Saturday at 14:00**

14:00 – open	N. Alshafai, course team & locals , Join us on a post course get together: We have organized a special tour with tasting local polish food and drinks while taking a planned tour walk in the beautiful city of Krakow.
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