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CNSF 51st Congress

June 21-24, 2016 | Quebec City Convention Centre | Quebec City

Congress Details

The Canadian Neurological Sciences Federation hosts an annual Canadian Congress with four days of accredited scientific courses to assist our members, and others, with their Continuing Professional Development and Maintenance of Certification.

This is a collegial meeting providing multidisciplinary courses relevant to all neuroscience specialties. Our 2016 meeting is at:

Quebec City Convention Centre 900 René-Lévesque Blve. East Quebec City, Quebec G1R 2B5

QUESTIONS?

Canadian Neurological Sciences Federation

Membership, sponsorship, exhibiting at Congress: 143N - 8500 Macleod Trail, SE, Calgary, AB T2H 2N1 T: 403-229-9544 F: 403-229-1661 donna-irvin@cnsfederation.org

Intertask Conferences

Registration, speakers, exhibitor logistics: 275 rue Bay Street, Ottawa ON K1R 5Z5 T: 613-238-6600 F: 613-236-2727 cnsf@intertaskconferences.com

Registration

Onsite Registration & Check-In Desk for Delegates and Exhibitors

The Registration / Check – in desk is located on Level 2 of the Quebec Convention Centre.

| Hours of Operation |
|--------------------|
| Monday, June 20 |
| Tuesday, June 21 |
| Wednesday, June 22 |
| Thursday, June 23 |
| Friday, June 24 |

7:00 pm - 9:00 pm 7:00 am - 6:00 pm 7:00 am - 6:00 pm 7:00 am - 6:00 pm 7:00 am - 11:00 am

2016 Congress Registration

Please see complete details below.

Click on your appropriate category to be taken directly into the registration system.

• Each person attending the CNSF Congress must complete the registration process.

This includes invited speakers, chairpersons, exhibitors/sponsors and all delegates. Eligible Course Chairs, Exhibitors/Sponsors and Speakers will receive an email with instructions and a code required to complete their registrations.

• Registration is only confirmed upon receipt of payment.

Registration Fees

Registration Fees are subject to applicable taxes. Social activity fees include taxes.

| Full Registration | Early Bird Rates Until May 2, 2016 (Midnight ET) | Regular Rates After May 2, 2016 |
|---|---|---|
| Member (Associate & Active) | \$775 | \$910 |
| Member (Junior/Resident) | \$250 | \$250 |
| Member (Retired) | \$250 | \$250 |
| Non-Member | \$1,095 | \$1,240 |
| Non-Member (Resident)* | \$775 | \$775 |
| Non-Member (Neuroscientist) | \$775 | \$775 |
| Non-Member (Nurse, Technologist) | \$470 | \$470 |
| Non-Member (Medical Student & Graduate Student) * | \$485 | \$485 |
| *Proof Required | | |
| One Day Registration | Early Bird Rates Until May 2, 2016 (Midnight ET) | Regular Rates After May 2, 2016 |
| One Day Member (Associate & Active) | \$485 | \$485 |
| One Day Member (Junior/Resident) | \$130 | \$130 |
| One Day Member (Retired) | \$130 | \$130 |
| One Day Non-Member | \$590 | \$590 |
| One Day Non-Member (Resident) * | \$485 | \$485 |
| One Day Non-Member (Neuroscientist) | \$485 | \$485 |
| *Proof Required | | |
| Exhibitors & Sponsors - Check with your booth coordinator to see if you are entitled to receive a complimentary Exhibit Hall Only registration. Otherwise, register below: | | |
| Additional Exhibit Hall Only | \$200 | \$200 |
| Exhibitor/Sponsor Full Registration (All Access) | \$900 | \$900 |

Please note that any new membership applications must be complete and must be allowed 2 weeks for processing. New memberships are not considered Active until membership dues payment has been received in the CNSF office.

The Congress registration system will not be able to recognize you as a member until this process is complete. Non-Member rates will apply unless this process has been completed in advance.

Application forms are available on each society page on the CNSF website http://www.cnsfederation.org/

Full Registration Includes:

- All sessions Tuesday-Friday
- All official lunches and breaks
- Exhibitor's Reception
- Course Notes

One-day Registration Includes:

- Admission to all sessions the day of your registration
- Exhibitor's Reception (if you are registered to attend the Congress on Wednesday)
- Course Notes

Delegate Badge Designation

- Blue CNSF Members
- **Red** CNSF Board Members
- Bronze CNSF Committee Members
- Burgundy Invited Guests
- Yellow Speakers
- Black/Grey Exhibitor/Sponsor
- White Non-Member
- Clear CNSF & Intertask Staff

REGISTRATION POLICIES

Payment Policy

Registration fees must be paid in full by credit card (VISA, Mastercard or American Express) at time of registration.

Membership Status

Ensure your Canadian Neurological Society (CNS), Canadian Neurosurgical Society (CNSS), Canadian Society of Clinical Neurophysiologists (CSCN) or Canadian Association of Child Neurology (CACN) membership dues are paid in full prior to registering for the CNSF Congress.

Membership status is verified and in the event your membership is not current, non-member registration rates will apply.

Membership Number

You will be required to input your membership number as part of the registration process.

Members that require assistance with their membership number or verification of their membership status, can contact CNSF Membership Services by email or at (403) 229-9544.

Non-Member Residents, Medical Students and Graduate Students

Proof of status must be provided within 72 hours of submitting registration. Your registration is considered incomplete until your proof of status is received and verified. Acceptable Proof of Status:

- recent transcript
- letter from your Program Director

Send your documents by email to cnsf@intertaskconferences.com

Registration Cancellations

Until midnight (ET) May 6, 2016, cancellations are refundable less a \$50 administration fee (plus applicable taxes). Send your request to cnsf@intertaskconferences.com.

After May 6, 2016, registration fees are non-refundable, however, you may make a substitution.

In the event of cancellation or non-attendance due to an emergency, submit your request in writing (along with supporting documentation) to cnsf@intertaskconferences.com no later than July 15, 2016. Requests received after this date will not be considered. Requests will be reviewed and evaluated on a case by case basis.

Substitutions

Send your request to cnsf@intertaskconferences.com, be sure to include the replacement's name, telephone number and email address.

Photo Reproduction

The CNSF reserves the right to use any photo or video image recorded at the CNSF Annual Congress. By registering for the Congress, you hereby acknowledge and agree that CNSF may photograph you at this event, as well as use the photographs in any publication or media for future educational and promotional activities/materials, without further notification or any compensation to you.

For example, the selected images will assist in the promotion of future CNSF events and may be used in professional displays, advertisements, printed publications, and/or on the CNSF website. You also acknowledge and agree to waive any right to inspect or approve any future educational and promotional activities/materials that may include photographs and/or videotapes of you.

Children

The CNSF Congress is a professional development conference and as such, **insurance and liability issues restrict us from allowing children in any of the Congress meeting space;** including the Exhibit hall, lecture theatres and all meeting rooms.

Thank you for your compliance and your understanding.

Speakers Information

Speaker Ready Room: Quebec Convention Centre -Room 201C, level 2

Hours of Operation

| Monday, June 20 | 4:00 pm – 8:00 pm |
|--------------------|-------------------|
| Tuesday, June 21 | 7:00 am – 7:00 pm |
| Wednesday, June 22 | 7:00 am – 5:00 pm |
| Thursday, June 23 | 7:00 am – 5:00 pm |
| Friday, June 24 | 7:30 am – 2:00 pm |

Speakers are asked to load their PowerPoint presentations at least 3 hours prior to their course.

Registering for the Congress

Each person attending the CNSF 2016 Congress must complete the registration process. This includes invited speakers, chairpersons, and all delegates.

If you have been provided with a special delegate registration code, please make sure to use this when registering.

AV at the Congress

Basic AV provided at the Congress includes Laptop projector (PC), LCD projector and screen, Laser pointer, Microphone.

• If additional AV is required Chairs are to submit a request for approval before May 29, 2016.

• Speakers are requested to use the laptop projector provide by the Congress. However, if you require use of your own lap top, please email speakers@intertaskconferences.com before May 29, so procedures may be communicated in a timely manner.

Course Notes

Electronic Course Notes can still be submitted to artwork@intertaskconferences.com.

CNSF 2016 Congress Hotel Selections

The CNSF has secured "preferred" room rates for Congress delegates at both the Hilton Hotel and the Fairmont Le Château Frontenac



Hilton Hotel 1100 René Lévesque East Quebec, Quebec G1R 4P3

Conveniently linked to the Quebec Convention Centre. Experience the Hilton Hotel in Quebec City and enjoy a refreshing sense of comfort and hospitality. This hotel offers a selection of spacious rooms with a light and airy atmosphere, stylishly decorated and boasting panoramic views of Old Quebec, the Laurentian Mountains and Parliament Hill.

Room rates starting from \$ 219.00.

Our room block at the Hilton is now essentially full. Please contact the hotel directly for alternate rooming options: 1-800-774-1500 or 1-418-647-2411



Fairmont Le Château Frontenac 1 Carrières Street Québec, Québec G1R 4P5

A 15 minute walk from the Convention Centre. Located inside the walls of Old Quebec, the iconic Fairmont Le Château Frontenac has undergone a multimillion dollar renaissance project that combines old world charm with modern innovations. Breathtaking views of the St. Lawrence River and the architecture of the old fortified City. This hotel is designated a UNESCO World Heritage Site.

Room rates starting from \$ 249.00.

Our room block at the Fairmont is now essentially full. Please contact the hotel directly for alternate rooming options. 1-800-441-1414

For those staying at the Frontenac, we encourage you to join the Fairmont Presidents Club to receive complimentary: internet access in the guestrooms, health club access, newspapers, local and 800 calls, and expedited check-in. Complimentary to join at www.fairmont.com/fpc.

See a full listing of Presidents Club benefits at https://www.fairmont.com/fpc/benefits/

Quebec City, Quebec



Soak up the city's spirit and explore parks, public markets, exhibits, pedestrian circuits, exclusive events, first-class restaurants, and spas.

Enjoy a visit to Old Québec, a UNESCO designated **world heritage treasure**. Wander amongst the centuries-old architecture, where you'll find horse-drawn carriages, street entertainers, singers, and artists, particularly at Old Québec's open-air art gallery, Rue du Trésor.

High atop Cape Diamond, stroll along the Dufferin Terrace overlooking the St. Lawrence River and the surrounding area.

Local Tourism Links Quebec City tourism

Tourism Quebec



Helpful Tourism Links

Once you have taken-in Quebec City and historic Old Quebec, how about a little side trip by LRT? Enjoy the views as you travel along the St. Lawrence River. Multiple stops are available in quaint villages offering hiking trails, artisan fairs, outdoor musical events and more. Check out details and rates at Réseau Charlevoix.

If time permits, perhaps you would like to explore the Charlevoix region and try a whale watching excursion or a cruise up the St. Lawrence with Croisières AML

Upcoming Congress Dates

June 20 - 23, 2017 - Victoria, BC

Past Congress Locations

- Toronto, ON June 9 12, 2015
- Banff, AB June 3 6, 2014
- Montreal, QC June 11 14, 2013
- Ottawa, ON June 5 8, 2012
- Vancouver, BC June 15 17, 2011
- Quebec City, QC June 8 11, 2010
- Halifax, NS June 9 12, 2009
- Victoria, BC June 17 20, 2008
- Edmonton, AB June 19 22, 2007

Program-at-a - Glance



Canadian Neurological Sciences Federation 2016 Congress June 21 – 24 Quebec City Convention Centre

Tuesday, June 21st, 2016

8:30 AM to 11:30 AM - Courses

- Hot Topics in Neurology: Ethics/Physician Assisted Death QCCC 202 (begin in room 206AB -with Neurosurgery)
- Hot Topics in Child Neurology: Hypothermia for perinatal asphyxia and new treatments for epilepsy QCCC 205AB
- Hot Topics in Neurosurgery: Ethics/Physician Assisted Death QCCC 206AB
- Hot Topics in Clinical Neurophysiology: Psychiatric Comorbidity in Epilepsy QCCC- 204AB
- Neurology Resident Course: Neurophysiology/Electroencephalography Hilton Hotel–Beauport Room 2nd floor
- 11:45 AM 1:15 PM Lunch Break
- 1:30 PM to 4:30 PM Resident Courses
 - Neurosurgery: Neurovascular QCCC 204AB
 - Neurology: EMG and Neuromuscular Disease Basics Hilton Hotel-Beauport Room 2nd floor
- 1:30 PM to 4:30 PM Courses
 - Conducting Independent Medical Exams QCCC 205AB
 - Functional Mapping in Cranial Surgery QCCC 202
- 5:30 PM to 7:30 PM Clinical Case Studies (CCS)
 - Epilepsy Video Session Hilton Hotel-St-Louis 1st floor
 - Practical Neurosurgery Hilton Hotel-Beauport 2nd floor
 - Neuromuscular Hilton Hotel-Kent Room 1st floor
 - Headache: Chronic Migraine Hilton Hotel-Sainte-Foy 1st floor

Wednesday, June 22nd, 2016

8:00 AM to 10:30 AM - Grand Plenary QCCC - 200C

- CNS Richardson Lecture: Michael Hill Acute Stroke Treatment
- CSCN Gloor Lecture: Andres Kanner- Laser-Ablation of Mesial Temporal Structures
- CACN Tibbles Lecture: Kym Boycott Canada's Path Forward for Rare Genetic Diseases
- CNSS Penfield Lecture: Juha Hernesniemi Microsurgery of Cerebral AVMs
- 10:45 AM to 12:30 PM SPC Chair's Select Abstracts QCCC CACN-204AB, CNS/CSCN-202, CNSS-205AB

12:30 PM to 2:00 PM - Lunch Break

2:15 PM to 5:15 PM - Multi-disciplinary Courses

- Neurocritical Care QCCC 202
- Stroke QCCC 206AB
- Neuromuscular QCCC 204AB
- Tumour Related Epilepsy QCCC 205AB
- Difficult Problems in Headache Medicine OCCC 203
- 5:15 PM to 7:15 PM Exhibitors' Reception QCCC 200AB CNSF Exhibit Hall
- 7:00 PM to 9:00 PM Residents' Social Hilton Hotel-Plaines Room 23rd floor

Thursday, June 23rd, 2016

- 8:30 AM to 4:30 PM Society Days
 - Child Neurology (CACN) Day
 Child Neurology (CACN) Day
- AM Rare Diseases QCCC 205AB
- PM Rare Diseases QCCC 205AB
- Neurophysiology (CSCN) Day AM Neuromuscular Weakness in the Intensive Care Unit QCCC 204AB
- Neurophysiology (CSCN) Day PM EEG in the Critical Care Unit QCCC 204AB
 - AM Neuromyelitis Optica Spectrum Disorders QCCC 206AB
- Neurology (CNS) DayNeurology (CNS) Day
- PM Multiple Sclerosis The Good, the Bad and the Ugly QCCC 206AB AM What's New in Spine? QCCC 203
- Neurosurgery (CNSS) Day
 - Neurosurgery (CNSS) Day AM Pediatric/Congenital Neurosurgery-Hydrocephalus Management QCCC-202
 - Neurosurgery (CNSS) Day PM Recent Trends in Stereotactic Radiosurgery QCCC 203
 - Neurosurgery (CNSS) Day PM Innovations in Neurosurgical Education QCCC 202
- 11:45 AM to 1:15 PM Lunch in the Exhibit Hall QCCC 200AB

4:45 PM to 6:30 PM - Digital Poster Author Standby Sessions QCCC - 200C, 203 & 206

7:00 PM - CNSF Social Event, Chateau Frontenac - "A Taste of Quebec" Fairmont Hotel-Frontenac Room

Friday, June 24th, 2016

8:30 AM to 11:30 AM - Multi-Disciplinary Courses

- Adult Hydrocephalus Diagnosis and Treatment QCCC 204AB
- Tropical Neurology/Neuro-infectious Diseases QCCC 205AB
- Disorders of Consciousness an update QCCC 206AB
- 8:30 AM to 11:30 AM Abstract Platform Presentations QCCC CACN/ CSCN-202, CNSS-207, CNS-203
- 11:30 AM to 1:00 PM Brunch in Exhibit Hall QCCC 200AB
- 1:00 PM to 3:00 PM Grand Rounds QCCC 200C

Congress Daily Program Tuesday | June 21, 2016

Each course will offer a 15 minute coffee break between 10:00 am - 10:30 am and 3:15 pm - 3:45 pm

Courses

Hot Topics in Neurology » Ethics/Physician Assisted Death

Co-Chairs - Colin Chalk & Alex Henri-Bhargava

Course Description:

Following the Supreme Court of Canada (SCC) decision (Carter v. Canada) in February 2015, physician-assisted death (PAD) will be decriminalized in Canada with legislation expected in early June 2016. In this "Hot Topics" symposium, we will explore issues surrounding PAD as it relates to clinical practice in the clinical neurosciences, including presentations regarding the practice of PAD in Europe, the implications of the SCC decision on Canadian physicians, experience with recently enacted legislation in Quebec, national response to decriminalization of PAD and concluding with a presentation of the Canadian Neurosurgical Society position statement on PAD. Case presentations will be discussed and Canadian Neurological Society members will have the chance to discuss preparing a position statement on PAD.

By the end of this course participants will:

| 8:30 |
|-------|
| AM |
| to |
| 11:30 |
| ΔΜ |

- Understand the use of PAD in foreign countries
- Understand the legal background leading to decriminalization of PAD in Canada
- Understand the implications of PAD on physicians
- Be familiar with the Canadian Neurosurgical Society position statement on PAD

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician)

Learning Format: Case studies, Forum/panels, Lecture/plenary method, Question and answer sessions, Small Workshop / hands-on demonstration

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Manager, Health Advocate, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|--|-------------------|
| 8:30 | Physician-Assisted Death (PAD) in Europe | Sean P. Barry |
| 9:00 | Implications of PAD for Physicians | Michael Watts |
| 9:40 | National Response to PAD | W. Brian Wheelock |
| 10:20 | BREAK | |

Hot Topics in Child Neurology »

Hypothermia for Perinatal Asphyxia and New Treatments for Epilepsy

Chair: Philippe Major, MD, FRCPC

Course Description:

The intent of this course is to provide health care practitioners with an update on the latest information concerning various aspects of pediatric neurology. Specifically this course will focus on current literature in child neurology as well as recent advances in the monitoring and management of neonatal brain injury, and pediatric epilepsy.

By the end of this course participants will be able to:

- Discuss recent advances in the field of pediatric neurology.
- Discuss the modern monitoring tools and management strategies following neonatal brain injury.
- Discuss new advances in pediatric epilepsy.

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuro Physiologist, Resident, Fellow, Nurses with interest in topic

Learning Level: Intermediate (Practicing Physician), Advanced (SIG, Higher Level Discussion)

Learning Format: Case studies, Discussion group, Lecture/plenary method, Question and answer sessions, Seminar

CanMED Roles: Medical Expert, Scholar, Health Advocate

| Time | Description | Name of Presenter |
|--------|----------------------------------|-------------------|
| 08:30 | Welcome and Introduction | Philippe Major |
| 08:35 | Update in Neonatal Brain Injury | Ala Birca |
| 09:20 | Discussion | Ala Birca |
| 09:35 | Hot papers in Child Neurology | Philippe Major |
| 10 :05 | Discussion | Philippe Major |
| 10:15 | Hot topics in Pediatric Epilepsy | Elizabeth Thiele |

Hot Topics in Neurosurgery » Ethics/Physician Assisted Death

Chair - Ian Fleetwood

Course Description:

Following the Supreme Court of Canada (SCC) decision (Carter v. Canada) in February 2015, physician-assisted death (PAD) will be decriminalized in Canada with legislation expected in early June 2016. In this "Hot Topics" symposium, we will explore issues surrounding PAD as it relates to clinical practice in the clinical neurosciences, including presentations regarding the practice of PAD in Europe, the implications of the SCC decision on Canadian physicians, experience with recently enacted legislation in Quebec, national response to decriminalization of PAD and concluding with a presentation of the Canadian Neurosurgical Society position statement on PAD.

By the end of this course participants will:

- Understand the use of PAD in foreign countries
- Understand the legal background leading to decriminalization of PAD in Canada
- Understand the implications of PAD on physicians
- Be familiar with the Canadian Neurosurgical Society position statement on PAD

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician)

Learning Format: Case studies, Forum/panels, Lecture/plenary method, Question and answer sessions, Small Workshop / hands-on demonstration

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Manager, Health Advocate, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|--|---|
| 8:30 | Physician-Assisted Death (PAD) in Europe | Sean P. Barry |
| 9:00 | Implications of PAD for Physicians | Michael Watts |
| 9:40 | Experience with PAD Following Quebec Legislation | Marie-Josee Bernardi |
| 10:20 | BREAK | |
| 10:30 | National Response to PAD | W. Brian Wheelock |
| 11:00 | Presentation of CNSS Position Statement on PAD | PANEL PRESENTATION: Sean P. Barry Chris E. U. Ekong Ian G. Fleetwood Peter B. Gorman Richard J. Moulton Kesaya K. Reddy |

Hot Topics in Clinical Neurophysiology » Psychiatric Comorbidity in Epilepsy

Co-Chairs: Jose Tellez-Zenteno, Dang Nguyen Co-Chairs

Course Description:

This course will provide a review of the new concepts about psychiatric comorbidity in patients with epilepsy.

W. Brian Wheelock

The program will begin by reviewing the most common comorbid conditions in patients with epilepsy. Then the course will review the epidemiology of psychiatric comorbidity in patients with epilepsy. The program will also review the main studies assessing psychiatric comorbidity in new onset epilepsy. Finally, the course will review the main screening methods to assess psychiatric comorbidity in patients with epilepsy and describe EEG and MRI findings that could be specific to patients with epilepsy and psychiatric conditions.

By the end of this course participants will be able to:

- To learn the most frequent psychiatric comorbidities in patients with epilepsy
- To understand the interaction between epilepsy and psychiatric conditions
- To learn the basic screening for psychiatric conditions in patients with epilepsy
- To understand the main abnormalities in MRI and EEG in patients with epilepsy and psychiatric conditions

Audience: Neurologist - Adult, Child Neurologist, Neurosurgeon, Resident, Fellow

Learning Level: Intermediate, Advanced

Learning Format: Case studies, Forum/panels, Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|---|------------------------|
| 8:30 | Comorbidity in epilepsy | Jose F. Tellez-Zenteno |
| 8:50 | Epidemiology of psychiatric comorbidity | Jorge Burneo |
| 9:20 | Psychiatric comorbidity in new onset epilepsy | Bernhard Pohlmann-Eden |
| 9:50 | Questions | All |
| 10:00 | Coffee Break | |
| 10:20 | Screening of psychiatric comorbidity in patients with epilepsy | Andres M. Kanner |
| 10:50 | Imaging, EEG or other test as a marker of psychiatric comorbidity in patients with epilepsy | Dang K. Nguyen |
| 11:20 | Question Wrap up | All |

Neurology Resident Course » Neurophysiology/Electroencephalography

Chair: Seyed Mirsattari

Co-chairs: Matsanga Leyila Kaseka & Theo Mobach

Course Description:

This EEG course will provide a review of the basics of EEG interpretation. The program will start with a review of the basic neurosciences involved in spike generation in focal epilepsy as well as spike-and wave in generalized epilepsy. Role of the neurotansmitters and ion channels in generation of the paroxysmal depolarization shit (PDS) and transition from interictal state to seizures will be discussed. This will be followed by the EEG interpretation putting the emphasis on tips and common pitfalls. A presentation of common pathological EEG patterns and benign variants found in children and adults will follow. The program will conclude with illustrative cases.

By the end of this course participants will be able to:

- Explain the basic neurophysiology behind the generation of spikes, spikes-and-waves, and seizures
- Identify common benign variants found on pediatric and adult EEG
- Describe the classic EEG findings of various neurological conditions

Audience: Resident, Fellow, Nurses with interest in topic, Neurologists and neurosurgeons interested in epilepsy care

Learning Level: Basic, Intermediate

Learning Format: Case studies, Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Expert, Scholar

| Start Time | Presentation Title | Name of Presenter |
|------------|--------------------------------|-------------------|
| 8:30 | Welcome and Introduction | Seyed Mirsattari |
| 8:35 | Basic Neurosciences of EEG | Michael Rogawski |
| 9:15 | Benign Variants | Seyed Mirsattari |
| 10:00 | Pause | |
| 10:15 | EEG Reading: Tips and Pitfalls | Warren Blume |
| 10:45 | EEG in Common Conditions | Richard Wennburg |
| 11:20 | Discussion and wrap up | |

| 11:45 AM | |
|--------------------------------|-----------------------------------|
| to 1:15 | Lunch Break |
| PM | |
| | Resident Courses |
| 1:30 PM to | Neurovascular |
| 4:30 PM | Chairs: Bill Wang, Stephen Lownie |
| | Course Description: |

The "Neurosurgery ResidentCourse – Vascular Neurosurgery" is a balanced didactic and case-based course providing an overviewing of the most common problems encountered in vascular neurosurgery. Topics covered include intracranial aneurysms, AVM's, dural AVF, cavernomas, and carotid stenosis. Emphasis will be placed on proper workup, diagnosis and management of patients. The latest evidence will be addressed as well as some potential areas of controversy. Each topic will include a didactic portion followed by illustrative cases. Resident participation is encouraged and feedback will be provided in a timely fashion. Cases will be integrated between topics to promote a fast-paced and exciting learning experience.

Course Objective:

By the end of this course participants will be able to:

- Provide initial workup and differential diagnosis for patients with some common vascular neurosurgery conditions
- Generate a management plan taking into account the latest evidence
- Understand points of controversy for certain vascular neurosurgical conditions

Audience: Neurosurgical residents, neurosurgeons

Learning Level: Mid to senior level residents

Learning Format: Lecture, case studies (with resident participation), Q&A sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Manager, Professional, Health Advocate

| 1:30 | Aneurysm (ruptured) – discussion of anterior and posterior circulation aneurysms with focus on rationale/criteria for clipping vs coiling | Gwynedd Pickett |
|------|--|------------------|
| 1:55 | Aneurysm (unruptured) -decision making for when to treat and when to observe; if treatment is considered what modality is best: clip vs coil? | Juha Hernesniemi |
| 2:20 | Case presentation – First session (two cases max) regarding intracranial aneurysms | |
| 2:30 | AVM's – balanced discussion of various treatment modalities (surgery, embolization, SRS); assessment of surgical risks and factors that influence treatment of unruptured AVM's | Genevieve Milot |
| 2:55 | CranialdAVF and Spinal dAVF – discussion of classification systems and decision making process for treatment | Charles Haw |
| 3:20 | Case presentation – Second session (two cases max) regarding AVM and dAVF | |
| 3:30 | Cavernomas and other angiographically occult lesions – | Ivan Radovanovic |

| | brainstem lesions with focus on natural history and treatment challenges | |
|------|--|------------------|
| 3:55 | Carotid disease – decision making algorithm for carotid stenosis with balanced discussion of endarterectomy vs stenting | John Wong |
| 4:20 | Case presentation – Third session (two cases max) regarding cavernomas and/or carotid disease | |
| 4:30 | Bonus lecture from visiting professor | Juha Hernesniemi |
| | | |

Neurology »

EMG and Neuromuscular Disease Basics

Chair: Dr. Kristine Chapman

Course Description:

This course will provide an overview of the basics of nerve conduction studies and EMG. Discussion will focus on electrophysiology in the context of common clinical problems, with a discussion of "tips and pitfalls". The course will be comprised of lectures which will review the use of NCS/EMG in diagnosing disorders of the peripheral nervous system, including the anterior horn cell (such as ALS), peripheral nerve (such as Guillian Barre Syndrome), neuromuscular junction (myasthenia gravis), and muscle disease. There will be a "practical" session with demonstrations of NCS and EMG techniques.

By the end of this course participants will be able to:

- Understand the basic neurophysiologic principles related to nerve conduction studies (NCSs) and electromyography (EMG).
- Appreciate how NCSs and EMG are an extension of the physical examination and can help the clinician to accurately localize a lesion in the peripheral nervous system.
- Describe how EMG studies can help determine both the timing and severity of an injury.

Audience: Neurologist – Adult, Child Neurologist, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician)

Learning Format: Case studies, Demonstration, Lecture/plenary method, hands-on demonstration

CanMED Roles: Medical Expert, Communicator, Collaborator, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|---|-------------------|
| 1:30 | Introduction | Kristine Chapman |
| 1:35 | Basics of NCSs /EMG Focal Neuropathy | Colin Chalk |
| 2:05 | Anterior Horn - ALS | Chris White |

| | 2:35 | Peripheral Nerve | Kristine Chapman |
|--|---|-----------------------------------|------------------|
| | 3:05 | Break | |
| | 3:15 | Neuromuscular junction and muscle | Mike Nicole |
| | 3:45 | EMG with demonstration | Zaeem Siddiqi |
| | 4:15 | Questions | |
| | | Wrap -up | |
| | Courses | | |
| | Conducting Independent Medical Exams » Chair: Jeanne Teitelbaum Course Description: During this course, participants will learn about the roles of medical experts, the medico-legal requirements laid | | |
| | | | |
| | | | |

During this course, participants will learn about the roles of medical experts, the medico-legal requirements laid out by Canada and Quebec, the training required, and the viewpoints of a seasoned lawyer and an experienced Neurologist.

By the end of this course participants will be able to:

- Appreciate what is expected of the medical expert
- Understand the types of expertise that are sought by the medico-legal system
- Understand the new requirements and skills necessary in medical expertise
- Understand how best to present in the courtroom and prepare an expertise

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuro Physiologist, Nurses, Physicians of any background

Learning Level: Intermediate (Practicing Physician)

Learning Format: Case studies, Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Professional

| Start Time | Presentation Title | Name of Presenter |
|--------------------------------------|--|--------------------|
| 1:30 (includes 10 minutes questions) | Types and duties of medical expertise | Ernest Prégent |
| 2:10 (includes 10 minutes questions) | Requirements necessary for expertise | François Sestier |
| 3:00 (includes 10 minutes questions) | What makes a good expert Lawyer's point of view | Jean-Pierre Ménard |

1:30 PM to 4:30 PM

| 3:40 (includes 10 minutes questions) | What makes a good expert, MD point of view | Jeanne Teitelbaum |
|--------------------------------------|--|-------------------|
| 4:20 | Panel questions | All |
| | | |

Functional Mapping in Cranial Surgery »

Co-chairs: Gelareh Zadeh, Andrew Parrent

Course Description:

The session will focus on the principles and advances on management of brain tumors and epileptic lesions. The techniques of intraoperative monitoring for function, eloquence and epilepsy using multi-modal functional mapping of eloquent cortex. Using a combination of didactic lectures and case examples we will describe overall management strategies, patient selection and approaches to combine imaging and electrophysiology in the operating room.

By the end of this course participants will be able to:

- Review advances in molecular biology in how we classify gliomas and use this knowledge to guide therapy both pre and intraoperatively
- Discuss advances in intra-operative techniques that can assist in intra-operative diagnosis
- Have a general understanding of functional MRI and PET data
- Understand the principles of performing intraoperative electrical mapping in cranial surgery.

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuro Physiologist, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (SIG, Higher Level Discussion)

Learning Format: Case studies, Discussion group/peer exchange/user groups, Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Manager, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|--|---------------------|
| 1:30 | Introduction: Advances in Molecular Biology of Gliomas Guiding Therapy | Gelareh Zadeh |
| 2:00 | Principles of Intraoperative Neuro-physiology Monitoring | Jose Tellez-Zenteno |
| 2:30 | Cortical Mapping for Resection of GLiomas and Epileptic Lesions | Andrew Parrent |
| 3:00 | Multi-modal Functional Mapping of Eloquent Cortex | Johnathan Norton |

| | 3:30 | Advances in Intraoperative Mapping: Raman Spectroscopy and IDH Analysis | Kevin Petrecca/Gelareh Zadeh | | | |
|--------------------------|--|--|--|--|--|--|
| | 4:00 | Case Based Discussion/Panel and Audience Review | Karolyn Au | | | |
| | Clinical Case Studies | | | | | |
| | Epilepsy Video Session » | Epilepsy Video Session » | | | | |
| | Co-Chairs: Seyed Mirsattari & Esther | r Bui | | | | |
| | Course Description: | | | | | |
| | This is an interactive Video-EEG sessi expected to engage in the analysis of each case and before any laboratory investigations and anticipated results | on where 2 pediatric and 2 adult case the case and semiology of the event results are revealed. The audience w before such data are provided. | es will be presented. The audience is is after the initial clinical description of ill discuss the best laboratory | | | |
| | By the end of this course particip | ants will be able to: | | | | |
| 5:30 PM | Identify semiology of some epileptic seizures Make a correlation between clinical features and anatomical localization of epileptic seizures Identify interictal and ictal EEG patterns in the presented cases Make an appropriate differential diagnosis for each case Provide a treatment plan | | | | | |
| o 7:30 PM | Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuro Physiologist, Resident, Fellow, Nurses with interest in topic, Neuropsychologists, and EEG technologists. Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (SIG, Higher Level Discussion) | | | | | |
| | | | | | | |
| | Learning Format: Case studies, Dis | cussion group/ peer exchange | | | | |
| | CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Manager, Health Advocate, Professional | | | | | |
| | Start Time | Presentation Title | Name of Presenter | | | |
| | 5:30 PM | Pediatric Case I | Bradley Osterman | | | |
| | | Pediatric Case II | Juan Pablo Appendino | | | |
| | | Adult Case I | Richard Wennberg | | | |
| | | Adult Case II | MichelleLee jones | | | |
| Practical Neurosurgery » | | | | | | |

Chair: Kesava Reddy

Course Description -

This is a short course addressing day to day practice of neurosurgery with active audience participation and examination of available evidence to support our practices. The four speakers will present cases and invite input from the audience and examine the best evidence available. This is meant to be almost a rounds format.

By the end of this course participants will be able to:

- To understand the variations in day to day practice of 4 neurosurgical disorders
- To be able to appreciate the data supporting our practice
- To be able to hopefuly transfer this knowledge into practice

Audience: Neurosurgeon, Resident, Fellow

Learning Level: Intermediate (Practicing Physician)

Learning Format: Case Studies

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|--------------------------------------|-------------------|
| 5:30 | Subdural Hematoma | Saleh Almenawer |
| 6:00 | Lumbar Spondylolisthesis+Stenosis | Ramesh Sahjpaul |
| 6:30 | Diffuse Pontine Glioma | Louis Crevier |
| 7:00 | Pituitary Apoplexy | Kesava Reddy |

Neuromuscular »

Co-chairs: Kristine Chapman & Ian Grant

Course Description -

The Canadian Neuromuscular Group (CNMG) SIG consists of a brief case presentations for a lively and informal discussion. In addition to interesting clinical cases (whether the diagnosis is known or remains uncertain but input from other colleagues is desired), short academic/research presentations on topics of widespread interest (research proposals, clinical trials etc.) are welcomed. Presentations by trainees at all levels are strongly encouraged. Anyone with an interest in neuromuscular disease are welcome. For clinical cases the format is generally a 5-minute presentation followed by a discussion amongst the audience, and then if appropriate a <u>brief</u> (1 or 2 slides) didactic presentation (total 15 minutes per case).

By the end of this course participants will be able to:

- Be familiar with recent advances in the diagnosis and management of neuromuscular diseases
- When given clinical information about patients with potential neuromuscular disorders, be able to

accurately localize the process to cord, root, peripheral nerve, neuromuscular junction or muscle

- Identify diagnostic tests that will aid in the investigation of patients presenting with specific clinical syndromes suggesting a neuromuscular origin
- When presented with results of electrophysiological testing, be able to critique results in light of the clinical presentation and identify technical pitfalls as well as appropriate interpretation.
- When given results of diagnostic investigations including electrophysiological studies, discuss the differential diagnosis

Audience: Neurologist – Adult, Child Neurologist, Neuro Physiologist, Resident, Fellow, Nurses with interest in topic, Physiatrist

Learning Level: Basic(Resident, New Information),Intermediate (Practicing Physician), Advanced(SIG,Higher Level Discussion)

Learning Format: Case Studies, Discussion Group/peer exchange/ user groups

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|------------------------|-------------------|
| | Introduction & Welcome | Kristine Chapman |
| | Case 1 | |
| | Case 2 | |
| | Case 3 | |
| | Case 4 | |
| | Case 5 | |
| | Case 6 | |
| | Conclusion & Summary | Ian Grant |

Headache: Chronic Migraine »

Chair: Werner Becker

Course Description:

Cases with chronic migraine will be presented. In the discussion, an update will be given of current state of the art therapy for chronic migraine, and prospects for new therapies in the near-term future.

By the end of this course participants will be able to:

• Discuss the current state of the art management of chronic migraine.

Audience: Neurologist – Adult, Child Neurologist, Resident, Fellow, Nurses with interest in topic, Other : Any health professional who sees patients with chronic migraine.

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (SIG,

| Hig | Higher Level Discussion) | | | |
|------------|--|--|--|--|
| Lea ans | Learning Format: Case studies, Discussion group/ peer exchange/ user groups, Forum/panels, Question and answer sessions, Seminar, Small group discussion, | | | |
| Ca | CanMED Roles: Medical Expert, Scholar, Communicator | | | |
| St | Start Time Presentation Title | | Name of Presenter | |
| 5: | :30 | Introduction: Chronic Migraine | Werner Becker | |
| 5: | :45 | Case presentation | Elizabeth Leroux | |
| 6: | :00 | Group discussion, additional case presentations from presenters and audience as time allows. | Werner Becker Elizabeth Leroux Audience participants | |
| 7: | :30 | Adjournment | | |

Congress Daily Program Wednesday | June 22, 2016

Morning coffee break will be at 10:30 am Afternoon courses will offer a 15 minute coffee break between 3:15 and 3:45

Grand Plenary

CNS - Richardson Lecture - Acute Stroke Treatment » Michael Hill

8:00 AM to 10:30 AM



Michael Hill

Acute Stroke Treatment **CNS Richardson Lecture - Dr. Michael Hill**

Michael Hill is a Professor for the Departments of Clinical Neurosciences, Community Health Sciences, and Medicine and Radiology, University of Calgary. He is also Director of the Stroke Unit for the Calgary Stroke Program, Alberta Health Services and has recently completed a 5-year term as the Associate Dean Clinical Research, University of Calgary.

Dr. Hill completed undergraduate training at McGill University in biochemistry and went on to the University of Ottawa medical school. He trained in internal medicine at the University of Ottawa and received his FRCPC (Internal Medicine) in 1997. Subsequently he completed a neurology residency at the University of Toronto and received his FRCPC (Neurology) in 1999. Dr. Hill moved to Calgary to undertake a stroke fellowship and clinical epidemiology training at the University of Calgary and was appointed to faculty in 2001. He then completed his MSc thesis in 2003.

Dr. Hill's research interests include stroke thrombolysis, stroke epidemiology and surveillance and clinical trials. He holds the Heart & Stroke Foundation of Alberta/NWT/Nunavut-Hotchkiss Brain Institute professorship in Stroke Research. He holds or has held operating and clinical trials grants from the CIHR, Heart & Stroke Foundation of Alberta/NWT/Nunavut, from various industry partners as

well as NIH (NINDS). Dr. Hill has also received a number of awards, including the Barnett Scholarship, the Pessin Award and the ARP merit award and the Performance Recognition award for his role in research and his outstanding publication record.

He is the past chair of the Heart & Stroke Foundation of Alberta board, the Canadian Stroke Network Evaluation and Information group and currently sits on the board for the Canadian Neurosciences Federation. He has made contribution to the NINDS Stroke group, the Canadian Hypertension Education Program (CHEP) and the Canadian Best Practices for Stroke Guidelines. He sits as an editorial board member for Stroke, International Journal of Stroke and the Canadian Journal of Neurological Sciences.

He recently lead the ESCAPE trial with his co-PIs Drs. Goyal and Demchukand colleagues across Canada, showing that rapid endovascular therapy for acute ischemic stroke results in a major improvement in good outcomes after acute ischemic stroke.

CSCN - Gloor Lecture- Laser-Ablation of Mesial Temporal Structures » Andres Kanner



Andres Kanner

Laser-Ablation of Mesial Temporal Structures **CSCN Gloor Lecture – Andres Kanner**

Dr. Andres M. Kanner is Professor of Clinical Neurology, Head of the Epilepsy Section and Director of the Comprehensive Epilepsy Center at the University of Miami, Miller School of Medicine, which he joined on January 1st 2013. Prior to coming to Miami, he was director of the Laboratory of Electroencephalography and Video-EEG-Telemetry, Associate Director of the Section of Epilepsy and of the Rush Epilepsy Center and Professor of Neurological Sciences and Psychiatry at Rush Medical College of Rush University.

Dr. Kanner was born in Mexico City, where he grew-up and attended Medical School at the National Autonomous University of Mexico. After graduating from Mexico he moved to the USA where he completed a residency in Psychiatry at the Long-Island Jewish Hillside Medical Center in New Hyde Park, New York, a residency in Neurology at the Department of Neurology of Mount Sinai Medical Center in New York City and completed his training with a fellowship in Epilepsy and Clinical Neurophysiology at the Cleveland Clinic Foundation in Cleveland, Ohio. Dr. Kanner is quadruple-boarded in Neurology, Psychiatry, Clinical Neurophysiology and Epilepsy.

Dr Kanner has long-standing research interests in the areas of pharmacology of epilepsy, psychiatric aspects of epilepsy and surgical treatment of temporal lobe epilepsy. He has authored or coauthored over 80 research publications, over 75 invited review articles and over 73 book chapters and has edited two textbooks and co-edited four. He is the Editor-in-Chief of *Epilepsy Currents*, the official journal of the American Epilepsy Society.

Dr. Kanner was awarded the J. Kiffin Penry Award for Excellence in Clinical Care in Epilepsy by the American Epilepsy Society in December 2010, the Epilepsy Ambassador Award from the International League Against Epilepsy in August 2011 and the Award for Outstanding Medical Service from the Epilepsy Foundation of Chicago in November 2011. In 2012, he was given the Award of Epilepsy Ambassador for Latin America by the Latin American Commission of the International League Against Epilepsy. He was invited to be the Lennox-Lombroso Lecturer at the 2013 meeting of the American Epilepsy Society, held in December 2013.

Dr. Kanner has served as Co-Chair of the Neuropsychobiology Commission of the International League Against Epilepsy and as Past Chair of Epilepsy Section of the American Academy of Neurology. He chairs the Practice Committee of the American Epilepsy Society.

CACN - Tibbles Lecture - Canada's path forward for rare genetic diseases: Discovery to translation » Kym Boycott



Kym Boycott

Canada's path forward for rare genetic diseases: Discovery to translation

CACN Tibbles Lecture – Dr Kym Boycott

Kym Boycott is a Medical Geneticist at the Children's Hospital of Eastern Ontario (CHEO) and Clinician Scientist at the CHEO Research Institute. She is a Professor of Pediatrics and holds a Tier II Research Chair in Neurogenetics from the Faculty of Medicine at the University of Ottawa. She completed her PhD, MD and FRCPC training in Medical Genetics at the University of Calgary.

Dr. Boycott's research, bridging clinical medicine to basic research, is focused on elucidating the molecular pathogenesis of rare genetic diseases using next-generation sequencing approaches. She has been the recipient of the Canadian Institutes of Health Research Clinical Investigatorship Award from the Institute of Genetics, the SickKids Foundation Young Investigator Award and the Basil O'Connor March of Dimes Young Investigator Award. She was the Lead Investigator of the Genome Canada and CIHR funded '<u>Finding of Rare Disease Genes in</u> Canada' (FORGE Canada) project, which investigated the molecular etiology of more than 250 rare pediatric diseases, identifying the cause in more than 55% and making 67 novel disease gene discoveries.

She currently leads the Genome Canada and CIHR funded large-scale project 'Enhanced CARE for RARE Genetic Diseases in Canada', which is focused on improving the clinical care of patients and families by expanding and improving the diagnosis and treatment of rare diseases. Dr. Boycott moves the international rare disease agenda forward through her role as the Chair of the Diagnostics Committee of the International Rare Disease Research Consortium.

CNSS - Penfield Lecture - Microsurgery of Cerebral AVMs » Juha Hernesniemi



Juha Hernesniemi

Microsurgery of Cerebral AVMs

CNSS Penfield Lecture – Dr Juha Hernesniemi

Dr Juha Hernesniemi is an Emeritus Professor, Department of Neurosurgery at Helsinki University, Finland and Professor hcBurdenko Institute, Moscow. He is the Founding Member of World Academy of Neurological Surgeons

HERNESNIEMI, Juha Antero, born in a small village of Niemonen (less than 100 inhabitants), Kannus, Finland Oct 18, 1947. High school in Ruovesi, Finland 1966, Medical school at the University of Zürich, Switzerland, Dr.Med. Zürich 1973. Specialist in neurosurgery, Helsinki, 1979, PhD, Helsinki 1979. Associate Professor Kuopio 1987, Senior Physician and Co-Chairman Kuopio 1980-97.

Professor and Chairman, Department of Neurosurgery, University Central Hospital of Helsinki, 1997- current

Study periods at 20 foreign neurosurgical centers, including Profs.Yasargil and Drake/Peerless. Personal microsurgical experience: more than 16,000 operations including more than 5,000 cerebral aneurysms,AVMs and DAVFs, more than 3,000 brain tumours.

Professor hcBurdenko Institute 2013, Visiting Professor at >50 universities around the world, more than 300 original articles (mainly on cerebral aneurysms

| | and AVMs, and cerebral tumours), more than 150 reviews and text book chapters. He has given numerous LIVE operative courses around the world, Europe, India, PRChina, Latin America, USA, but most importantly in Helsinki more than 30 times and LINNC course 5 times. Close to 3,000 foreign neurosurgeons have visited Helsinki since 1997, actually LIVE microsurgical course is running all the time. More than 75 fellows around the world for periods of 6 months to 4 years. High number of domestic neurosurgeons trained. Lifetime experience in the book "Helsinki Microneurosurgery Basics and Tricks" (Lehecka, Laakso, Hernesnieni et al) June 2011 published, free available in internet, translated in Russian, Spanish, Japanese, Chinese. van Wagenen, Yasargil, Donaghy lectures , several other awards international but also domestic:Handicraft, Mensa, Small Woodpecker etc *Dec. 2015 World Neurosurgery Cover and inside 1 of the 56 most prominent neurosurgeons in the last 100 years *Joo Lee net magazine (39 Million readers) 1 of 18 top Neurosurgeons in the world I/2015 | | |
|--|---|--|--|
| 10:45 AM to 12:30 PM | SPC Chair's Select Abstracts CACN, CNSS, CNS/CSCN - Selected as part of Abstract Review Process | | |
| 12:30 PM to | Lunch Break | | |
| 2:00 PM | | | |
| | Multi-Disciplinary Courses | | |
| | Neurocritical Care » | | |
| | Co-chairs: Draga Jichici & Jeanne Teitelbaum | | |
| | Course Description: | | |
| 2:15 PM to 5:15 PM | This course will be extremely interactive, with all speakers using case presentations to foster discussion and illustrate teaching points. What is covered will be determined more by the needs and interests of the audience than by predetermined criteria. Through the use of clinical cases, the lecturers will discuss assessment of the comatose patient, the prognosis of severe head trauma, the recognition and treatment of intracranial hypertension, and the use of continuous EEG monitoring in the ICU. | | |
| | By the end of this course participants will be able to: | | |
| | Develop a new approach to the acutely comatose patient: the clinical assessment, investigation, and novel management of particular etiologies Identify the factors that influence prognosticate in severe head trauma, Appreciate what's new in the treatment of severe head trauma Identify the indications for continuous EEG monitoring and acquire some of the expertise needed to | | |
| | | | |

interpret the results in severely ill neurological patients

• Develop an improved approach to the medical management of intracranial hypertension

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuro Physiologist, Resident, Fellow, Nurses with interest in topic, Intensivists from all specialties

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician)

Learning Format: Case studies, peer exchange, plenary method, demonstration

CanMED Roles: Medical Expert, Scholar, Communicator, Professional

| Start Time | Presentation Title | Name of Presenter |
|-------------|--|-------------------|
| 2:15 | He's comatose! Now what? | Jeanne Teitelbaum |
| 3:00 | Will this patient survive this trauma? And get better? What can we do? | Alexis Turgeon |
| 3:40 - 3:55 | Coffee break | |
| 4:00 | Is the patient herniating? Do something! | Benjamin Lo |
| 4:40 | Is EEG monitoring useful in this case? | Cecil Hahn |

Stroke »

Chair: André Durocher

Course Description:

The attendees will learn to diagnose, manage and prognosticate in patients with presumed transient ischemic attacks. They will learn how to manage acute stroke in this revolutionary time of thrombectomy, and they will learn how best to screen for and treat atrial fibrillation in patients with stroke.

By the end of this course participants will be able to:

- to diagnose, manage and prognosticatein presumed TIA
- manage hyperacute stroke
- The indications for thrombectomy for stroke
- Appreciate the role of atrial fibrillation in stroke, and how best to detect it

Audience: Neurologist – Adult, Child Neurologist, Resident, Fellow, Nurses with interest in topic, Internists and Intensivists with interest in the topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician)

Learning Format: Case studies, Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Manager, Health Advocate, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|---|------------------------|
| 2:15 | Welcome & introduction | André Durocher |
| 2:20 | TIA: investigation & prognostication | Amy Yu |
| 3:10 | Atrial fibrillation detection: when, how and for how long | David Gladstone |
| 3:50 | Coffee break | |
| 4:10 | Acute stroke: new management | Laura Gioia |
| 4:50 | Question and answer session | All speakers and chair |

Neuromuscular »

Co-chairs: Michelle Mezei & Fraser Moore

Course Description:

The Neuromuscular course will focus on new developments in neuromuscular disease that will be of interest to both general neurologists and neuromuscular specialists.

By the end of this course participants will be able to:

- Understand the rationale for the genetic treatment of neuromuscular disease and describe two potential approaches.
- Become familiar with newer IgG4 related neuromuscular disorders.
- Understand when to suspect a metabolic myopathy and learn a practical approach to their diagnosis.
- List 3 new findings from the Neuromuscular literature that might impact your practice.

Audience: Neurologist – Adult, Child Neurologist, Neuro Physiologist, Resident, Fellow, Nurses with interest in topic, Medical Student

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (SIG, Higher Level Discussion)

Learning Format: Forum/panels, Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Manager, Health Advocate, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|---|------------------------------|
| 2:15 | Welcome and Introduction | Fraser Moore |
| 2:20 | Genetic treatment of neuromuscular disease | Nicolas Chrestien |
| 2:50 | Autoimmune Neuromuscular Disorders | Annie Dionne |
| 3:20 | Audience Question and Answer/ Break (10 min) | Fraser Moore, Michelle Mezei |
| 4:00 | Approach to Metabolic Myopathy | Michelle Mezei |
| 4:30 | Update in Neuromuscular Disease | Rami Massie |
| 5:00 | Audience Question and Answer | Fraser Moore, Michelle Mezei |

Tumour Related Epilepsy »

Co-chairs: Jeffrey Politsky & Sandeep Mittal

Course Description:

This course is designed to provide an integrated understanding of the relationship between brain tumors and epilepsy, two devastating neurologic conditions with a complicated and still poorly understood interplay that varies across age ranges and tumor pathology. The course will feature up to date discussions that focus on epidemiologic data as well the etiologic basis of tumor-related epilepsy. Clinical cases will be used throughout. Topics of discussion will also include diagnostic tools utilized for the diagnosis of tumor-related epilepsy and as part of pre-surgical planning; pharmacotherapy with an emphasis on anti-seizure medication; surgical treatments and approaches, which vary depending on age, tumor type, and tumor location. Finally, we will discuss research opportunities. Audience participants are invited to submit (in advance) presentations of interested cases of patients with tumor-related epilepsy, which could be presented to the expert panel for an open forum discussion. Time restrictions will limit the number of cases that can be presented. Presentations should be submitted via power point and include no more than 5 slides (history, EEG data, neuro-imaging data, pathology, and/or anything else that will highlight the germane elements of his/her case,

By the end of this course participants will be able to:

- Appreciate the epidemiologic date pertaining to brain tumor-related epilepsy;
- Understand the purported mechanisms of BTRE;
- Identify the diagnostic and treatment options for BTRE;

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuro Physiologist, Resident, Fellow, Basic Scientists, Neuropsychologists, Neuropathologists, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (SIG, Higher Level Discussion)

Learning Format: Case studies, Discussion group, Lecture; Question and answer sessions.

CanMED Roles: Medical Expert, Scholar, Collaborator, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|--------------------------------------|-------------------|
| 2:00 | Introduction | Jeffrey Politsky |
| 2:20 | Epidemiology of TRE | Jorge Burneo |
| 2:40 | Etiologic Basis of TRE | Jong Rho |
| 3:00 | Diagnostic workup in TRE | Jeffrey Politsky |
| 3:20 | Clinical Presentation: Pediatric TRE | Jong Rho |
| 3:30 | Pediatric TRE Surgery | Walter Hader |
| 3:50 | Clinical Presentation Adult TRE | Jorge Burneo |
| 4:00 | Adult TRE Surgery | David Steven |
| 4:20 | TRE Surgery and Biogenomics | Sandeep Mittal |
| 4:40 | Audience Cases and Open Form | All Participants |
| 5:10 | Conclusions | Sandeep Mittal |

Difficult Problems in Headache Medicine »

Cluster Headache, Spontaneous Intracranial Hypotension, and Hemiplegic Migraine

Chair: Werner J. Becker

Course Description:

This course will provide a state of the art overview of cluster headache, spontaneous intracranial hypotension, and hemiplegic migraine. Neurologists are expected by referring physicians to be expert in these relatively uncommon but important clinical entities. This course will update neurologists in all three of these important areas, and also provide residents with a sound knowledge base in these areas. Management will be discussed in some detail, including the latest in surgical management of the refractory chronic cluster headache patient.

By the end of this course participants will be able to

- Discuss in detail the optimal medical and surgical management of cluster headache, both episodic and chronic.
- Optimally investigate and treat patients with spontaneous intracranial hypotension secondary to spinal CSF leaks.
- Discuss the biology, diagnosis, and management of hemiplegic migraine.

Audience: Neurologist – Adult, Neurosurgeon, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (SIG, Higher Level Discussion)

Learning Format: Case studies, Forum/panels, Lecture/plenary method, Question and answer sessions,

| | CanMED Roles: Medical Expert, Scholar | | |
|--------------------------------|---------------------------------------|--|-------------------|
| | Start Time | Presentation Title | Name of Presenter |
| | 2:15 | Spontaneous Intracranial Hypotension | Michael Knash |
| | 2:55 | Discussion | |
| | 3:10 | Hemiplegic migraine | Sian Spacey |
| | 3:50 | Discussion | |
| | 4:05 | Cluster Headache: Medical Management | Werner Becker |
| | 4:25 | Cluster Headache: Surgical Management | Michel Aubé |
| | 4:55 | Discussion | |
| | 5:15 | Adjournment | |
| 5:15 PM to 7:15 PM | Exhibitor's Reception | | |
| 7:00 PM to 9:00 PM | Resident's Social | | |

Congress Daily Program Thursday | June 23, 2016

Each course will offer a 15 minute coffee break between 10:00 am - 10:30 am and 2:45 pm - 3:15 pm

Child Neurology (CACN) Day

Rare Diseases »

8:30 AM to 4:30 PM Co-Chairs: Craig Campbell & Nicolas Chrestian

Course Description:

The Child Neurology Day sessions will examine issues of rare diseases with a focus on pediatric neurology. The morning session will be concentrated on macro level issues of pediatric neurology rare disease such as Health Canada's Rare Disease strategy and the perspectives of the Canadian Organization of Rare Disease. The afternoon session will focus on rare disease diagnostics, updates, discoveries and examples of rare disease networks.

By the end of this course participants will be able to:

- Understand the issues of rare pediatric neurological disease at a societal level
- Describe the diagnostic modalities that are available and applicable in the field of rare pediatric neurological disease. The learner will also understand the limitations of various genetic methods.
- Detail elements of a successful rare disease network and be able to give examples relevant to patients they will encounter in their clinical practice.

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Resident, Fellow, Nurses with interest in topic, Masters or PhD level learners.

Learning Level: Intermediate, Advanced.

Learning Format: Lecture/plenary method Case studies

CanMED Roles: Medical Expert, Scholar, Collaborator, Professional, Health advocate, Manager

| Time | Description | Name of Presenter |
|----------------|---|-------------------------------|
| 8:30 – 8:35 AM | Introductions | |
| 8:40 | Crossing the preclinical to clinical translational bridge | Manoj M. Lalu |
| 9:15 | Canadian rare disease strategy | Durhane Reiger Wong |
| | | |
| 10:00 - 10:30 | Coffee Break | |
| 10:30 | Health Canada Approach to Rare Disease | Dan Keene |
| 11:15 | Cases presentation | Resident Case Presentation |
| 11:45 - 1:15 | Lunch | |
| 1:30 | Introductions | |
| 1:35 | Diagnostics in rare disease | Kym Boycott |
| 2:20 | Update on hypomyelinatingleukodystrophy | Genevieve Bernard |
| 3:00 - 3:15 | Coffee Break | |
| 3:15 | Update and genetic discoveriens on Brain Malformations | Myriam Srour |
| 4:00 | Update on Hereditary Spatic Paraplegia: canHSP experience | Nicolas Chrestian |
| 4:25 | Evaluation & Wrap Up | Craig Campbell |

Neurophysiology (CSCN) Day

8:30 AM to 4:30 PM

Neuromuscular Weakness in the Intensive Care Unit (8:30-11:30) »

Chair: Zaeem A. Siddiqi

Course Description:

The neuromuscular weakness course in ICU will provide an extensive review of the common focal and/or generalized causes of weakness observed in critically ill patients. A systematic approach to clinical evaluation and electrophysiologic studieswill be reviewed followed by general principles of management and prognostication. The program will provide basic and advancedconcepts of an electrophysiology consultation in the setting of ICU, its limitations and common pitfalls and how to avoid them. The program will end with an interactive discussion among the panel members on some common challenging clinical scenarios followed by Q & A session with the audience.

By the end of this course participants will be able to:

- Recognize the common causes of neuromuscular weakness in ICU focal or generalized
- Develop an approach to electrophysiological assessment of a weak patient
- Provide a comprehensive consultation and recommend management in a weak patient
- Formulate an approach to prognosticate the long term outcome of ICU weakness

Audience: Neurologist - Adult, Child Neurologist, Neurophysiologist, Resident, Fellow

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician)

Learning Format: Case studies, Demonstration, Discussion, Forum/panels, Lecture/plenary method, Question and answer sessions

| Start Time | Presentation Title | Name of Presenter |
|------------|--|---|
| 8:30 | Welcome & Introductions | Zaeem Siddiqi |
| 8:35 | Common Causes of ICU weakness - focal vs. generalized | George Elleker |
| 9:05 | Electrophysiology in Neuromuscular weakness | Nigel Ashworth |
| 9:35 | Advance electrophysiological studies - when to consider? | Zaeem Siddiqi |
| 10:05 | Management & prognostication of ICU-acquired weakness | Mike Nicolle |
| 10:35 | Challenging Clinical Scenarios in ICU- How would you approach? | Moderator: Zaeem Siddiqi Panel: Mike Nicole, George Elleker Nigel Ashworth |
| 11:00 | Audience Question & Answer | Moderator: Zaeem Siddiqi Panel: Mike Nicolle, George Elleker Nigel Ashworth |

CanMED Roles: Medical Expert, Scholar, Communicator, Professional

EEG in the Critical Care Unit (1:30-4:30) »

Co-chairs: Esther Bui & Cecil Hahn

Course Description

This course will provide an evidence-based review of the role of EEG and evoked potentials in the critical care setting. Leading experts will highlight important developments in the prognostication of hypoxic-ischemic brain injury and novel treatments for refractory status epilepticus. The program will conclude with an interactive panel discussion highlighting clinical pearls in how neurophysiology can be applied to the critically ill patient.

By the end of this course participants will be able to:

- learn the role of EEG in prognostication in hypoxic ischemic brain injury
- identify the role and pitfalls of continuous EEG monitoring in the ICU
- highlight novel treatments of status epilepticus in the ICU

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic(Resident, New Information), Intermediate (Practicing Physician), Advanced (SIG, Higher Level Discussion)

Learning Format: Lecture/plenary method, Forum/panels

CanMED Roles: Medical Expert, Scholar, Collaborator, Manager, Health Advocate

| Start Time | Presentation Title | Name of Presenter |
|----------------------|---|---|
| 1:00 Welcome & Intro | EEG in the ICU | Esther Bui & Cecil Hahn |
| 1:05 | Prognostication in Hypoxic Ischemic Brain Injury | Bryan Young |
| 1:50 | Question & Answer | |
| 2:00 | Continuous EEG monitoring in the ICU | Martin Savard |
| 2:45 | Question & Answer | |
| 2:55 | Novel treatments of status epilepticus | Jong Woo Lee |
| 3:40 | Question & Answer | |
| 3:50 | Challenging Cases in the ICU: Interactive Panel Discussion | Bryan Young, Martin Savard, Jong Woo Lee |

Neurology (CNS) Day

8:30 AM to 4:30 PM

Neuromyelitis Optica Spectrum Disorders (8:30-11:30) »

Co-chairs: Dean Wingerchuk & Fiona Costello

Course Description:

This course will provide a summary of current scientific knowledge, diagnostic approaches, and strategies for management of neuromyelitis optica spectrum disorders (NMOSD). Faculty will review recent advances in

understanding of the clinical and neuroimaging features of NMOSD, including recently proposed revised diagnostic criteria, the role of aquaporin-4 autoantibodies in the pathogenesis of the disease and approaches to serological testing and interpretation, and treatment options. Case vignettes will also be used to demonstrate key clinical points.

By the end of this course participants will be able to:

- Recognize the cardinal clinical features of NMOSD
- Appreciate recent scientific advances in understanding the role of aquaporin-4 antibodies in NMOSD
- Identify MRI patterns characteristic of NMOSD and contrast them with those of key differential diagnoses
- Describe options and strategies for NMOSD attack treatment and prevention

Audience: Neurologist – Adult, Child Neurologist, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (SIG, Higher Level Discussion)

Learning Format: Case studies, Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Professional

| Start Time | Presentation Title | Name of Presenter |
|-------------|---|---|
| 8:30 AM | NMOSD Update: Clinical Science and Diagnosis | Dean Wingerchuk |
| 9:15 | MRI: NMOSD and its Differential Diagnosis | Tony Traboulsee |
| 10:00-10:15 | Break | |
| 10:15 | Treatment of NMOSD | Jodie Burton |
| 11:00 | Case Vignettes and Q&A | Dean Wingerchuk, Tony Traboulsee, Jodie Burton |

Multiple Sclerosis - The Good, the Bad, and the Ugly (1:30-4:30) »

Co-chairs: E. Ann Yeh & Fiona Costello

Course Description:

In this case-based course, participants will gain knowledge regarding the diagnosis and treatment of MS. The course will place specific emphasis on diagnostics, assessment of the visual system, and new therapies in MS. We will discuss evidence for the use of newer MS therapies, and will review practical information regarding treatment of aggressive MS.

By the end of this course participants will be able to:

 Recognize typical clinical features of MS versus potential "red flags" that may implicate an alternate diagnosis

- Identify afferent and efferent neuro-ophthalmic manifestations of MS
- Provide a rationale approach to MS treatment that includes recently approved therapies for this condition
- Consider novel management strategies for cases of "Aggressive MS"

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Neuro Physiologist, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (SIG, Higher Level Discussion)

Learning Format: Audience response systems (touch pads), Case studies, Demonstration, Discussion group/ peer exchange/ user groups, Forum/panels, Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Manager, Health Advocate, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|--|--|
| 1:30 | Welcome and Introduction | Fiona Costello |
| 1:35 | Making the diagnosis: mimics of MS | Ann Yeh |
| 2:10 | Neuro-Ophthalmic Manifestations of Multiple Sclerosis | Fiona Costello |
| 2:45 | Multiple Sclerosis: The New Therapeutic Landscape | Virender Bhan |
| 3:20 | What to Do When Nothing Seems to Work: Managing Aggressive MS | Mark Freedman |
| 3:55 | Case Based Panel Discussion with Interactive Audience Participation | Ann Yeh, Virender Bhan, Mark Freedman, Fiona Costello |
| 4:25 | Final Remarks | Ann Yeh |
| | | |

Neurosurgery (CNSS) Day

What's New in Spine? (8:30-11:30) »

Co-chairs: Daniel Warren & Ramesh Sahjpaul

8:30 Course Description

AM to

4:30 PM Review the latest advancements in the management of degenerative disorders of the adult spine. Approach to management from minimally to maximally invasive strategies. This course will cover a range of interventions including percutaneous techniques, minimally invasive surgery for the spine and the management of adult spinal deformity.

By the end of this course participants will be able to:

- Application of wide variety of techniques
- Awareness of when to recommend minimalist strategies

- Awareness of when MIS spine approaches are optimal
- Awareness of approach to adult spinal deformity

Audience: Neurosurgeon, Neuro Physiologist, Resident, Fellow

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (SIG, Higher Level Discussion)

Learning Format: Case studies, Forum/panels, Lecture/plenary method, Question and answer sessions, Small group discussion

CanMED Roles: Medical Expert, Scholar

| Start Time | Presentation Title | Name of Presenter |
|------------|--------------------------|-------------------|
| 8:30 | Introduction to MIS | Ramesh Sahjpaul |
| 8:40 | Spinal Neuromodulation | Mohammed Shamji |
| 9:30 | MIS spine surgery | Daniel Shedid |
| 10:15 | Intro to Adult Deformity | Daniel Warren |
| 10:25 | Adult Spinal Deformity | Tamir Ailon |
| 11:05 | Discussion Period | Daniel Warren |

Pediatric/Congenital Neurosurgery- Update in Hydrocephalus Management(8:30-11:30) »

Chair: Patrick McDonald

Course Description:

This course will provide the learner with an update in management of pediatric hydrocephalus. Through a series of challenging cases, the learner will be given examples of how to avoid and manage complex hydrocephalus. Based on current available evidence, the learner will learn the indications and limitations of CSF shunting, endoscopic third ventriculostomy (ETV) and ETV with choroid plexus coagulation (ETV-CPC). Finally, the learner will be exposed to the challenges and current practice of transitioning pediatric hydrocephalus to the adult world.

By the end of this course participants will be able to:

- Recognize the pitfalls in hydrocephalus management and avoid or manage them
- Learn the indications for shunting, ETV and ETV-CPC as well understand their efficacies and limitations
- Appreciate the challenges in transitioning pediatric patients and obtain an overview of how transitioning is currently practiced across Canada.

Audience: Neurosurgeon, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician)

Learning Format: Case studies, Demonstration, Discussion group/ peer exchange, Forum/panels,

Lecture/plenary method, Question and answer sessions, Small group discussion

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Manager, Health Advocate, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|---|-------------------------|
| 8:30am | Hydrocephalus- Complications and how to avoid and manage them | Vivek Mehta |
| | Hydrocephalus-Treatment options- shunt/ETV/ETV-CPC | Abhaya Kulkarni |
| | Hydrocephalus transitioning- What's ideal and what's actually happening | Patrick McDonald |
| | Question and Answer | Mehta/Kulkarni/McDonald |
| | | |

Recent Trends in Stereotactic Radiosurgery (1:30-4:30) »

Chair: David Mathieu

Course Description:

This course will provide an overview of the current most common indications of stereotactic radiosurgery in neurosurgery. The role of SRS in the treatment of brain metastases, benign skull base tumors (vestibular schwannomas and meningiomas), arteriovenous malformations and trigeminal neuralgia will be discussed through representative cases.

By the end of this course participants will be able to:

- Recognize the role of stereotactic radiosurgery in the current neurosurgical practice
- Identify indications and contra-indications of SRS in the management of brain metastases, benign skull base tumors, AVMs and trigeminal neuralgia.

Audience: Neurologist, Neurosurgeon, Resident, Fellow, Nurses with interest in topic, Other: radiation oncologist

Learning Level: Intermediate (Practicing Physician), Advanced (SIG, Higher Level Discussion)

Learning Format: Case studies, Forum/panels, Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|---|--|
| 1:30 | Welcome and introduction | David Mathieu |
| 1:40 | SRS for brain metastases | Laurence Masson-Côté |
| 2:20 | SRS for benign skull base tumors | Douglas Kondziolka |
| 3:10 | SRS for arteriovenous malformations | David Mathieu |
| 3:30 | SRS for trigeminal neuralgia and functional disorders | Mojgan Hodaie |
| 4:10 | Audience question and answer | Douglas Kondziolka, Laurence Masson-Côté, Mojgan Hodaie, David Mathieu (moderator) |

Innovations in Neurosurgical Education (1:30-4:30) »

Chair: Joseph Megyesi

Course Description:

Medical education is undergoing constant change. New techniques to improve the acquisition of knowledge and to ensure maintenance of competence are being developed; this is particularly true in neurosurgical education. This course will provide an update on competency based learning and how it may be applied to residency training and continuing professional development. It will also explore the role of boot camps, workshops and simulation learning (including the use of surgical simulators) in knowledge acquisition and in surgical skills development and maintenance. There will be discussions and demonstrations around these topics.

By the end of this course participants will be able to:

- Gain an understanding of the emerging role of competency base learning in residency training and in continuing professional development.
- Identify the role of boot camps and workshops in improving knowledge acquisition.
- Appreciate what is new in maintenance of certification and in continuing medical education.
- Recognize the role of simulation learning and how surgical simulators may help to improve surgical competence.

Audience: Neurosurgeon, Resident, Fellow, Nurses with interest in topic

Learning Level: Basic (Resident, New Information), Intermediate (Practicing Physician), Advanced (Higher Level Discussion)

Learning Format: Lecture/plenary method, Question and answer sessions, Discussion, Demonstration/handson demonstration

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Manager, Health Advocate, Professional

| 1:30IntroductionsJoseph Megyesi1:35What's New: Competency Based Learning in Residency and BeyondCian O'Kelly2:10What's New: Boot Camps and WorkshopsDavid Clarke2:45What's New: Maintenance of Professional DevelopmentJoseph Megyesi3:00 - 3:15BreakStation Simulation Learning and Surgical Simulators4:00Discussion and DemonstrationsJoseph Megyesi | Start Time | Presentation Title | Name of Presenter |
|--|-------------|--|-------------------|
| 1:35What's New: Competency Based Learning in Residency and BeyondCian O'Kelly2:10What's New: Boot Camps and WorkshopsDavid Clarke2:45What's New: Maintenance of Certification and Continuing Professional DevelopmentJoseph Megyesi3:00 - 3:15Break3:15What's New: Simulation Learning and Surgical SimulatorsJoseph Megyesi4:00Discussion and DemonstrationsJoseph Megyesi | 1:30 | Introductions | Joseph Megyesi |
| 2:10What's New: Boot Camps and WorkshopsDavid Clarke2:45What's New: Maintenance of Certification and Continuing Professional DevelopmentJoseph Megyesi3:00 - 3:15Break3:15What's New: Simulation Learning and Surgical SimulatorsJoseph Megyesi4:00Discussion and DemonstrationsJoseph Megyesi | 1:35 | What's New: Competency Based Learning in Residency and Beyond | Cian O'Kelly |
| 2:45What's New: Maintenance of Certification and Continuing Professional DevelopmentJoseph Megyesi3:00 - 3:15Break3:15What's New: Simulation Learning and Surgical Simulators4:00Discussion and DemonstrationsJoseph Megyesi | 2:10 | What's New: Boot Camps and Workshops | David Clarke |
| 3:00 - 3:15Break3:15What's New: Simulation Learning and Surgical Simulators4:00Discussion and DemonstrationsJoseph Megyesi | 2:45 | What's New: Maintenance of Certification and Continuing Professional Development | Joseph Megyesi |
| 3:15What's New: Simulation Learning and Surgical Simulators4:00Discussion and DemonstrationsJoseph Megyesi | 3:00 - 3:15 | Break | |
| 4:00 Discussion and Demonstrations Joseph Megyesi | 3:15 | What's New: Simulation Learning and Surgical Simulators | |
| | 4:00 | Discussion and Demonstrations | Joseph Megyesi |
| 4:25 Evaluations | 4:25 | Evaluations | |

| 11:45 AM to 1:15 PM | Lunch in the Exhibit Hall |
|---|--|
| 4:45 PM to 6:30 PM | Digital Poster Author Standby Sessions |

Congress Daily Program Friday| June 24, 2016

Each course will offer a 15 minute coffee break between 10:00 am - 10:30 am

| | Multi-Disciplinary Courses |
|-------------|---|
| | Adult Hydrocephalus Diagnosis and Treatment » |
| 8:30 AM | Chair: Mark Hamilton |
| to 11:30 | Course Description: |
| АМ | Adult hydrocephalus is often thought of as a homogeneous disorder, but in fact represents a very diverse grouping of patients with different etiology, pathophysiology, diagnostic criteria and treatment needs. These patients span ages from late teens through geriatric years. This program will provide a review of the epidemiological aspects of the adult hydrocephalus population, diagnostic modalities used for adult patients with hydrocephalus, and surgical treatment technologies, both with shunts and endoscopy. The program will |

conclude with an interactive panel discussion focused upon case presentations designed to engage the audience in Q&A.

By the end of this course participants will be able to:

- Understand the issues regarding diagnosis and investigation of adult patients with hydrocephalus.
- Be aware of the complications associated with surgical management of adult patients with hydrocephalus.
- Understand advances that have occurred for treatment of adult patients with hydrocephalus.
- Understand the role of endoscopic third ventriculostomy (ETV) fortreatment of adult patients with hydrocephalus.

Audience: Neurologist – Adult, Neurosurgeon, Resident, Fellow, Nurses with interest in topic, Neuropsychologist

Learning Level: Basic, Intermediate, Advanced

Learning Format: Case studies, Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Expert, Scholar, Communicator, Collaborator, Manager, Health Advocate, Professional

| Start Time | Presentation Title | Name of Presenter |
|------------|---|--|
| 8:30 | Welcome and Introduction. What is Adult Hydrocephalus? | Mark Hamilton |
| 8:40 | Testing Approaches and the Roleof Neurologists in Caring forAdult Patients with Hydrocephalus | Michael Williams |
| 9:25 | The Role of Neurosurgeons in Caring for Adult Patients with Hydrocephalus | Andy Parrent |
| 10:05 | Surgical Treatment of Adult Hydrocephalus: Improving Adult Hydrocephalus Care | Mark Hamilton |
| 10:45 | Case Presentations with Audience Question and Answer | Mark Hamilton, Michael Williams, Andy Parrent |

Tropical Neurology/Neuro-infectious Diseases » Central Nervous System Infections

Chair: Christian Renaud

Course Description:

This course on central nervous system infections will provide a review of parasitic infections, viral infections and neuroborreliosis. Discussion on newest diagnostic methods will follow. Speakers will highlight clinical, diagnostic and therapeutic options. Canadian epidemiology of these infections will be discussed.

By the end of this course participants will be able to:

- Recognize parasitic infection of the CNS and apply appropriate management
- Appreciate newest information on Canadian epidemiology of CNS viral infections
- Suspect Lyme disease appropriately in the changing Canadian epidemiology
- Apply appropriate diagnostic analysis when suspecting CNS infections

Audience: Neurologist - Adult, Child Neurologist, Resident, Fellow

Learning Level: Intermediate (Practicing Physician)

Learning Format: Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Expert, Collaborator, Health Advocate, Professional

| | Presentation Title | Name of Presenter |
|-----------|---------------------------------------|-------------------|
| 8:30 | Welcome and Introduction | Christian Renaud |
| 8:35 | CNS Parasitic infections | Cedric Yansouni |
| 9:05 | CNS Viral infections | Christian Renaud |
| 9:35 | Neuroborreliosis | Cedric Yansouni |
| 10:05 | What's new in CNS infection diagnosis | Christian Renaud |
| Questions | | |

Disorders of Consciousness - an update »

Co-chairs: Teneille Gofton & Gord Boyd

Course Description:

This course will provide a review of the most recent information and research relating to disorders of both acute and chronic disorders of consciousness. The program will review the neuroanatomy of consciousness, the prognosis of disorders of consciousness, recent advances in research investigating disorders of consciousness and the legal and ethical implications of recent advances in coma research. The program will be delivered using didactic lectures as well as interactive question periods.

By the end of this course participants will be able to:

- To gain an understanding of the complex neuroanatomy underlying consciousness.
- To develop an approach to the diagnosis of disorders of consciousness (e.g. coma, persistent vegetative state, minimally conscious state).
- To discuss new areas of research into disorders of consciousness.
- To appreciate ethical and legal issues associated with disorders of consciousness.

Audience: Neurologist – Adult, Child Neurologist, Neurosurgeon, Resident, Fellow, Nurses with interest in topic

Learning Level: Intermediate (Practicing Physician)

Learning Format: Case studies, Lecture/plenary method, Question and answer sessions

CanMED Roles: Medical Expert, Scholar, Collaborator, Health Advocate

8:30 AM to 11:30 AM

11:30 AM to 1:00 PM

1:00 PM

to 3:00 PM **Grand Rounds**

| Start Time | Presentation Title | Name of Presenter |
|--------------------------------|--|-------------------|
| 8:30 | Welcome and Introduction | Teneille Gofton |
| 8:35 | Neuroanatomy and Diagnosis of Disorders of Consciousness (40 min) | Bryan Young |
| 9:15 | Question and answer (10 min) | Moderator |
| 9:25 | Prognosis in Disorders of Consciousness (20 min) | Gord Boyd |
| 9:45 | Question and answer (10 min) | Moderator |
| 9:55 | Recent Advances in and Understanding of Research in Disorders of Consciousness (40 min) | Loretta Norton |
| 10:35 | Question and answer (10 min) | Moderator |
| 10:45 | Ethical and Legal Considerations in Disorder of Consciousness (20 min) | Teneille Gofton |
| 10:15 | Question and answer (15 min) | Moderator |
| Abstract Platform Presentation | ons | |
| CACN/CSCN | | |
| CNSS | | |
| CNS | | |
| Brunch in the Exhibit Hall | | |
| | | |

Abstracts & Presentation Formats

CNSF Congress Abstract Supplement

All accepted abstracts are electronically published in the Canadian Journal of Neurological Sciences – Congress Abstract Supplement.

2016 CNSF Congress Supplement available online in May

Digital Poster Display (Electronic)

All abstracts accepted for Poster Presentation are constructed, and displayed at the Congress, as Digital Electronic Posters.

There will be digital poster viewing stations available for the duration of Congress. CNSF delegates can peruse abstracts at their convenience. Electronic posters are searchable by subject, author or title.

Digital Poster - Author Stand By sessions - Thursday 4:45 pm

There will be a Digital Poster – Author Stand By sessions on Thursday, June 23, from 4:45 – 6:30 pm.

Presenting authors are given the opportunity to offer a brief oral presentation of their work. CNSF delegates are invited to dialogue with authors, and ask questions regarding their findings.

Society Abstract Platform Presentations - Friday 8:30 am

These oral abstract Platform Presentations are allotted slightly more time than the Poster Author Stand By sessions. Presenting authors can discuss their papers in more detail and will have the opportunity to field questions from delegates.

* SPC Chair's Select Abstract Presentations - Wednesday10:45 am

These oral presentations are selected by the Scientific Program Committee Chair and Vice-Chair. They have received the highest review grades and represent the best of the abstracts received for the 2016 Congress.

2016 Society Prize Winners

Congratulations to the following CNSF members that have been awarded 2016 Society Prizes.

Be sure to attend their presentations at the SPC Chair's Select sessions on Wednesday morning at the Congress.

Canadian Neurological Society

2016 Francis McNaughton Memorial Prize

Recipient: **Raed A. Joundi** Title as submitted: "Predictors and outcomes of dysphagia screening in patients with acute ischemic stroke"

2016 Andre Barbeau Memorial Prize Recipient: **Fabio Augusto Nascimento** Title as submitted: "Two definite cases of sudden unexpected death in epilepsy in a family with a DEPDC5 mutation"

Canadian Society of Clinical Neurophysiology

2016 Herbert Jasper

Recipient: Dragos Nita

Title as submitted: "Reactivity of burst-suppression EEG patterns to photic stimulation in comatose children"

Canadian Neurosurgical Society

2016 K.G. McKenzie Memorial Prize Basic Neuroscience Research

1st Place Recipient: Michael Tso
 Title as submitted: "Whole Genome Expression Profiling of Blood-brain Barrier Endothelial Cells after Experimental Subarachnoid Hemorrhage"

2nd Place Recipient: Andrew Jack
 Title as submitted: "Motor Cortex Electrical Stimulation to Promote Spinal Cord Injury Repair in an Animal Model"

2016 K.G. McKenzie Memorial Prize Clinical Research

1st Place Recipient: **Daniel Yavin** Title as submitted: "Intrathecal Morphine Following Lumbar Fusion: A Randomized, Placebo-Controlled Trial"

2nd Place Recipient: Cameron Elliott

Title as submitted: "Progressive Contralateral Hippocampal Atrophy Following Surgery for Medically Refractory Temporal Lobe Epilepsy"

Society & Business Meetings

Society AGMS

Society Annual General Meetings – Hilton Hotel

- Canadian Neurological Society (CNS) Tuesday, June 21, 4:30 p.m. – 5:30 p.m. Hilton Hotel, Montmorency/Courville Room (1st Floor)
- Canadian Neurosurgical Society (CNSS) Wednesday, June 22nd, 12:30 pm – 2:00 pm Hilton Hotel, Beauport Room (2nd Floor)
- Canadian Association of Child Neurology (CACN) Wednesday, June 22nd, 12:30 pm – 2:00 pm Hilton Hotel, Plaines Room (23rd Floor)
- Canadian Society of Clinical Neurophysiologists (CSCN) Thursday, June 23rd, 7:00 am – 8:15 am Hilton Hotel, Beauport Room (2nd Floor)

Business Meetings

Time

Room

Monday, June 20th

<u>TOP</u>

| RCSPC – Neurology | | Hilton Hotel – Montmorency Room (1st Floor) |
|---|--------------------|--|
| CNSF Board Meeting | 5:00 pm – 7:30 pm | Fairmont Chateau Frontenac – Cellar Room |
| | | |
| Tuesday, June 21 st | | |
| CNSF SPC / PDC Committee Meeting | 7:00 am – 8:15 am | Hilton Hotel – Courville Room (1 st Floor) |
| RCSPC – Neurosurgery | | Hilton Hotel – Courville Room (1st Floor) |
| CNSF Clinical Practice Guidelines Committee / Affiliates Societies / Advocacy Committee Meeting | 11:45 am – 1:00 pm | Hilton Hotel – Montmorency Room (1st Floor) |
| Wednesday, June 22 nd | | |
| CSCN EEG Section Meeting | 7:00 am – 8:00 am | Hilton Hotel – Montmorency Room (1st Floor) |
| CSCN EMG Section Meeting | 12:30 pm – 2:00 pm | Hilton Hotel – Montmorency Room (1 st Floor) |
| Thursday, June 23 rd | | |
| CJNS Journal Editorial Board | 7:00 am – 8:15 am | Hilton Hotel – Sainte Foy/Portneuf (1 st Floor) |
| AETC | | Hilton Hotel – Montmorency/Courville (1 st Floor) |
| Friday, June 24th | | |
| CJNS Journal Associate Editors Meeting | 7:00 am – 8:15 am | Hilton Hotel – Duschenay Room(1 st Floor) |
| CNSF SPC/PDC Committee Meeting #2 | 7:00 am – 8:15 am | QCCC – level 2, Room 205 C |
| AETC | | Hilton Hotel – Montmorency/Courville (1 st Floor) |

CSCN Exams

- General Information
- EEG Examinations
- EMG Examinations

Networking & Social Events

Tuesday, June 21, 2016

CACN Dinner Tuesday, June 21st at The Quebec Garrison Club 97 Rue Saint Louis, Québec, QC Cocktails at 7:30 pm & Dinner at 8:00 pm

Take advantage of this unique annual opportunity to reacquaint yourself with former trainees, co-workers, colleagues, mentors and friends in the elegance of this 135 year-old Québec institution. Visit this web link for additional details and to purchase tickets - **CACN Dinner**

Wednesday, June 22, 2016

Exhibitor's Reception Free Admission for Registered delegates 5:15 pm - 7:15 pm

Join your colleagues in the Exhibit Hall for a welcome reception for our sponsors and exhibitors. This is an excellent opportunity to network with colleagues while checking out the latest developments regarding medical devices, pharmaceuticals and new opportunities and achievements within the neuroscience field.

Resident's Social Free Admission for Registered delegates 7:00 pm - 9:00 pm

The residents' social will be held in the Hilton Hotel, Courville Room (23rd Floor) and will provide residents with an occasion to network with colleagues and staff physicians in an informal setting; casual fare will be provided. There will be a job fair at the social event. Staff physicians and academic centres that are hiring for fellowships and staff positions will be present and residents will be able to learn about available opportunities.

This event should provide a great setting for forging relationships and enjoying the company of colleagues.

Thursday, June 23, 2016

Lunch in the Exhibit Hall Free Admission for Registered delegates 11:45 am - 1:15 pm

Enjoy some lunch, network with colleagues and check out the latest developments in medical devices, pharmaceuticals and opportunities in the neurosciences.

CNSF Delegates Social Event – Savour the flavours of Quebec – 7:00 pm Fairmont Le Chateau Frontenac



Taste the unique cuisine of the area, featuring samplings of regional Quebec fare. Experience an evening of delicious food and joie de vivre

Cost: \$92.00 / person - includes one beverage ticket - Limited # of tickets available so book early - Purchase your tickets through the online Congress Registration or by contacting <u>cnsf@intertaskconferences.com</u>

Friday, June 24, 2016

CNSF Congress Brunch - Free Admission for Registered delegates **11:30 am - 1:00 pm** Join us for brunch in the Exhibit Hall and one last tour of the Exhibitors' booths.

Overall Congress Learning Objectives

By the end of the 2016 Congress, delegates will be able to:

- Discuss advances in the management of acute and chronic neurological and neurosurgical disorders.
- Discuss new findings in neurological and neurosurgical disorders.
- Describe advances in neurological care and/or neurosurgical techniques.
- Identify areas where there are gaps in learning (unperceived needs) not realized before attending the Congress and extend this professional learning after the Congress to the enhanced care of patients.

Maintenance of Certification (MOC)

Maintenance of Certification program of The Royal College of Physicians and Surgeons of Canada, and approved by the Canadian Neurological Society and the Canadian Neurosurgical Society.

Section 1 Group Learning MOC Credit

Upon completion of the 2016 Scientific Program, this activity will be sent for approval as an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification program of The Royal College of Physicians and Surgeons of Canada and approved by Canadian Neurological Society.

AMA PRA Category 1 Credit™

Upon the Congress being accepted for Section 1 MOC credits, and through an agreement between the Royal College of Physicians and Surgeons of Canada and the American Medical Association, physicians may convert Royal College MOC credits to AMA PRA Category 1 Credits[™]. Information on the process to convert Royal College MOC credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

UEMS ECMEC Credit

Upon the Congress being accepted for Section 1 MOC credits Live educational activities, occurring in Canada, recognized by the Royal College of Physicians and Surgeons of Canada as Accredited Group Learning Activities (Section 1) are deemed by the European Union of Medical Specialists (UEMS) eligible for ECMEC®.

| Date | Title | MOC Hours |
|---------------|---|--------------|
| Tuesday, | Hot Topics in Neurology: Ethics/Physician Assisted Death | 3.00 |
| June 21, 2016 | Hot Topics in Child Neurology: Hypothermia for perinatal asphyxia and new treatments for epilepsy | 3.00 |
| | Hot Topics in Neurosurgery: Ethics/Physician Assisted Death | 3.00 |

MOC Hours

| | Hot Topics in Neurophysiology: Psychiatric Comorbidity in Epilepsy | 3.00 |
|-----------------------------|---|------|
| | Resident Course - Neurology : Neurophysiology/Electroencephalography | 3.00 |
| | Resident Course - Neurology : EMG and Neuromuscular Disease Basics | 3.00 |
| | Resident Course - Neurosurgery: Neurovascular | 3.00 |
| | Conducting Independent Medical Exams | 3.00 |
| | Functional Mapping in Cranial Surgery | 3.00 |
| | Epilepsy Video – Clinical Case Studies | 2.00 |
| | Neuromuscular – Clinical Case Studies | 2.00 |
| | Practical Neurosurgery – Clinical Case Studies | 2.00 |
| | Headache: Chronic Migraine – Clinical Case Studies | 2.00 |
| | Tuesday – Total possible hours | 8.00 |
| Wednesday, June 22, 2016 | Grand Plenary Lectures CNS – Richardson Lecture (Neurology) – Michael Hill | 2.50 |
| | CACN - Tibbles Lecture (Child Neurology) – Kym Boycott | |
| | CSCN - Gloor Lecture (Neurophysiology) – Andres Kanner | |
| | CNSS - Penfield Lecture (Neurosurgery) – Juha Hernesniemi | |
| | CACN, CNSS, CNS/ CSCN Chair's Select Abstract Presentations | 1.75 |
| | Neurocritical Care | 3.00 |
| | Stroke | 3.00 |
| | Neuromuscular | 3.00 |
| | Tumour Related Epilepsy | 3.00 |
| | Difficult Problems in Headache Medicine | 3.00 |
| | Wednesday – Total possible hours | 7.25 |
| Thursday, | Child Neurology (CACN) Day: AM – Rare Diseases | 3.00 |
| June 23, 2016 | Child Neurology (CACN) Day: PM – Rare Diseases | 3.00 |
| | Neurophysiology (CSCN) Day: AM – ICU and Neuromuscular | 3.00 |
| | Neurophysiology (CSCN) Day: PM – EEG in the Critical Care Unit | 3.00 |

| | Neurology (CNS) Day - AM – Neuromyelitis Optica | 3.00 |
|---------------|--|------|
| | Neurology (CNS) Day - PM – Multiple Sclerosis | 3.00 |
| | Neurosurgery (CNSS) Day: AM – What's New in Spine | 3.00 |
| | Neurosurgery (CNSS) Day: AM – Pediatric/Congenital Neurosurgery | 3.00 |
| | Neurosurgery (CNSS) Day: PM – Recent Trends in Stereotactic Radiosurgery | 3.00 |
| | Neurosurgery (CNSS) Day: PM – Innovations in Neurosurgical Education | 3.00 |
| | Lunch 'n Learn: (Unaccredited) – Practice Audits in Multiple Sclerosis | 0.00 |
| | Digital Poster Author Standby Session | 1.75 |
| | Thursday – Total possible hours | 7.75 |
| Friday, | Hydrocephalus | 3.00 |
| June 24, 2016 | Tropical Neurology / Neuro-infectious Diseases | 3.00 |
| | Disorders of Consciousness – an update | 3.00 |
| | CNS/ CSCN Abstract Platform Presentations | 3.00 |
| | CNSS Abstract Platform Presentations | 3.00 |
| | CACN Abstract Platform Presentations | 3.00 |
| | Grand Rounds | 2.00 |
| | Friday – Total possible hours | 5.00 |

Certificate of Attendance

Certificates of Attendance will be sent to Congress delegates in July when the online Overall Congress Evaluation closes. You will complete your certificate by tallying MOC Hours for the courses that you attended at the Congress. Questions? Please direct email to donna-irvin@cnsfederation.org.

Proof of Participation

Your registration receipts and your personal name tag, provided upon check in at the Congress on-site Registration Desk, will serve as your Proof of Participation.

Sponsors

Organizations partner with the CNSF by supporting the Congress, advertising in the Canadian Journal of Neurological Sciences or by contributing to other CNSF initiatives.

The CNSF Congress is the major gathering of Canadian neurologists, child neurologists, clinical neurophysiologists and neurosurgeons. Every June, members of the four CNSF societies, invited speakers and other members of the neurological community meet in a major Canadian city to fulfill their continuing professional development requirements for the RCPSC and to network and meet with their colleagues and industry peers.

View Current & Past Sponsors

For information on Sponsorship opportunities, please contact:

Dan Morin - CNSF Chief Executive Officer

Telephone: (403) 229-9544 Fax: (403) 229-1661 Email:dan-morin@cnsfederation.org

Onsite Exhibit

Welcome to the 2016 Onsite Exhibit!

Quebec City Convention Centre - Level 2 - Room 200 AB

Take some time during the Congress to visit organizations working in the Neurological Community to assist you with the care of your patients.

EXHIBIT HALL HOURS

Wednesday: 5:15 pm to 7:15 pm Thursday: 10:00 am to 6:00 pm Friday: 10:00 am to 1:30 pm

Exhibitor's Reception - Wednesday, June 22, 2016

Free Admission for Registered delegates 5:15 pm - 7:15 pm

Join your colleagues in the Exhibit Hall for a welcome reception for our sponsors and exhibitors. This is an excellent opportunity to network with colleagues while checking out the latest developments regarding medical devices, pharmaceuticals and new opportunities and achievements within the neuroscience field.

2016 Exhibitors

Learn more about our Exhibitors by visiting them during the Congress and at their Virtual Booths in Industry Updates http://iu.cnsfederation.org/

| Company | Booth # |
|-------------|---------|
| Abbvie | 304 |
| Biocodex | 227 |
| Biogen Idec | 107 |

| Cambridge University Press | 218 |
|--------------------------------|-----|
| Codman Neuro | 100 |
| Eisai | 207 |
| EMD Serono | 306 |
| GeneDx | 126 |
| Grifols | 116 |
| Health Match BC | 317 |
| IMRIS Deerfield Imaging | 321 |
| Integra Canada ULC | 320 |
| Invitae | 325 |
| Kego Corporation | 120 |
| Leica Microsystems | 315 |
| LifeLabs | 105 |
| Medtronic of Canada Ltd. | 307 |
| Medtronic - Tech Suite | 303 |
| Mizuho America, Inc | 219 |
| Natus | 106 |
| NeuroSource Medical | 204 |
| Novartis | 217 |
| Roche | 221 |
| Roxon medi-tech ltd. | 104 |
| Sanofi Genzyme - MS | 216 |
| Sanofi Genzyme - Rare Diseases | 313 |
| Stryker | 122 |
| Sunovion Pharma | 220 |
| Synaptive Medical | 121 |

| Teva Canada Innovation | 127 |
|------------------------|-----|
| UCB Canada | 117 |
| Valeo Pharma Inc. | 323 |
| Zeiss Canada | 118 |
| Zimmer Biomet | 205 |

Exhibitor Information

For information on the Exhibit Hall, please contact Exhibitor Logistics:

Intertask Conferences Tel: 613-238-4075, Fax:613-236-2727 cnsf@intertaskconferences.com



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2016 Congress Planning Committee

The Canadian Neurological Sciences Federation (CNSF) is composed of 4 Member Societies:

- Canadian Neurological Society (CNS)
- Canadian Association of Child Neurology (CACN)
- Canadian Neurosurgical Society (CNSS)
- Canadian Society of Clinical Neurophysiologists (CSCN)

Members from each of the 4 Societies have representation on our Congress planning committee(s) - the Professional Development Committee (PDC) and the Scientific Program Committee (SPC).

Many thanks for the hard work and dedication of this year's Planning Committee Members

| Joe Megyesi | PDC Chair (CACN, CNS) |
|--------------------------|---------------------------------|
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| Shannon Venance | PDC (CNS) |
| Rudolf Arts | PDC (CNS, CSCN) |
| Craig Campbell | SPC (CACN) |
| James Perry | SPC (CNS) |
| Gelareh Zadeh | SPC (CNSS) |
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| Leyila Kaseka | SPC, PDC (CACN) |
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