33rd Meeting of the Canadian Congress of Neurological Sciences
June 16-20, 1998
Montreal, Quebec

Program and Abstracts

TUESDAY, JUNE 16, 1998

Neurobiology Review Course

Chaired by: Dr. Garth Bray

Program Objective: The premise on which this ongoing course is based is that molecular neurobiology plays a fundamental role in understanding the pathogenesis and treatment of disorders of the nervous system. For the past four years, the specific objective of the course has been to present up-to-date reviews that relate the understanding of molecular mechanisms to the management of three-four groups of neurological or neurosurgical disease.

i) Principles of Molecular Biology. Based on the response to questions presented at the 1997 Course, these two lectures on basic molecular biology have been introduced. RJ Dunn will give an overview of the basic principles of gene regulation and expression. Phil Barker will discuss new developments in molecular biology that have a particular impact in neurobiology.

ii) Prion Diseases. Stanley Pruisner was awarded the 1997 Nobel Prize in Medicine for the discovery of prions and the elucidation of their role in disease. David Westaway will review the basic biology of prions. Neil Cashman will discuss the main prion diseases from the perspective of their pathogenesis.

iii) Functional MRI. Almost every new issue of Science or Nature has an article describing the results of studies of normal or abnormal brain function determined on the basis of functional MRI. Ravi Menon, who is an MRI physicist, will review the basic principles involved in functional MRI. Rees Cosgrove will discuss the clinical applications of this emerging technology.

iv) Huntington Disease. The gene abnormality has been determined and the abnormal gene product identified. Massimo Pandolfo will discuss the basic molecular biology of triplet-repeat diseases. Sylvain Chouinard will present current ideas on pathogenesis, practical approaches to diagnosis, and potential therapeutic strategies.

Instructional Objective: The course chairman will work with the speakers to co-ordinate the pairs of talks, to prepare a set of course notes, and to develop the questions to be used in the interactive sessions.

Target Audience: Residents and practitioners of neurology and neurosurgery.

Principles of Molecular Biology

Review of Basic Molecular Biology – *Dr. Robert Dunn*
Recent Advances in Molecular Neurobiology
– *Dr. Philip Barker*
Discussion

Prion Diseases

Basic Biology of Prions – *Dr. David Westaway*
Clinical Features and Diagnosis of Prion Diseases
– *Dr. Neil Cashman*
Discussion

Functional MRI

Basic Principles of Functional MRI – *Dr. Ravi Menon*
Clinical Applications of Functional MRI
– *Dr. Rees Cosgrove*
Discussion

Huntington Disease

Molecular Biology of Triplet-repeat Diseases
– *Dr. Massimo Pandolfo*
Clinical Features and Diagnosis of Huntington Disease
– *Dr. Sylvain Chouinard*
Discussion

COMA AND IMPAIRED CONSCIOUSNESS

Chaired by: Dr. Jeanne Teitelbaum and Dr. Bryan Young

Program Objective: Neurologists are often consulted for patients in the intensive care who display an altered state of consciousness.

Instructional Objective: The course will help these physicians to quicky assess and manage patients presenting with an altered state of consciousness in the ICU.

Target Audience: Practicing physicians and residents in neurology and neurosurgery

Consciousness, Definition and Context
– *Dr. G. Bryan Young*
Major Syndromes of Impaired Consciousness
– *Dr. Zbigniew Lipowski*
Clinical Assessment, Investigation and Initial Management
– *Dr. Eelco Wijdicks*
Head Injury and Impaired Consciousness
– *Dr. Richard Moulton*

https://doi.org/10.1017/S0317167100034764 Published online by Cambridge University Press

Epilepsy: Video Presentations

Chaired by: Dr. Richard McLachlan

Program Objective: The diagnosis of epilepsy is based on the description of paroxysmal events. This course will demonstrate how videos can be used to document spells, to help distinguish epilepsy from non-epileptic conditions and to classify the seizure type.

Instructional Objective: Videos of seizures and seizure-like events will be shown along with brief histories to provoke discussion involving an expert panel and audience members about diagnosis, management and pathogenesis. This will be facilitated by use of a touchpad system. Participants will improve their ability to diagnose seizures and other paroxysmal events which in turn will facilitate management of these disorders.

Target Audience: Residents, fellows and students interested in neurology; adult and pediatric neurologists; neurosurgeons; neurology nurses and EEG technologists.

Interesting Seizures in Adults – *Dr. Jean-Marc St-Hilaire*
More Seizures from the Maritimes – *Dr. Mark Sadler*
Childhood Epilepsy – *Dr. Kevin Farrell*
Diagnostic Dilemmas – *Dr. Richard McLachlan*
Panel Discussants – *Dr. Fred Andermann and Dr. Warren Blume*

Mild Memory Loss in the Elderly - Can We Predict Development in Dementia?

Chaired by: Dr. Howard Chertkow

Program Objective: Elderly individuals with mild memory loss are increasingly presenting to neurologists requesting prognostication and treatment. Is it currently possible to predict which of these individuals will progress to dementia over follow-up? This auxiliary course will present recent research regarding diagnostic tools to answer this question.

Instructional Objective: To review aspects of clinical presentation, neuroimaging, and neuropsychology which may be useful in prognostication. To review recent research with cognitive, physiological, biological and genetic markers which offer promise for the future in diagnosis of mild memory loss.

Target Audience: General neurologists, geriatric psychiatrists, geriatricians, behavioural neurologists, residents and fellows interested in dementia.

Neuropsychological Predictors of Early Dementia
– *Dr. Mary Tierney*
Neuroimaging and Prediction of Dementia
– *Dr. Susan Murtha*
Cognitive and Biological Measures to Predict Dementia Onset – *Dr. Howard Chertkow*
A Multi-disciplinary Study of Progression to Dementia
– *Dr. Marilyn Albert*

Unusual Movement Disorder Video Session

Chaired by: Dr. Mark Guttman and Dr. Terry Curran

Program Objective: To illustrate the principles of clinical diagnosis of movement disorders and to demonstrate the range of disorders which are seen in a typical movement disorder practice.

Instructional Objective: To help guide neurology/neurosurgery residents in how to approach patients with these problems as well as to provide a review for general neurologists regarding diagnostic principles of movement disorders.

Target Audience: Residents in neurology and neurosurgery; general neurologists.

WEDNESDAY, JUNE 17, 1998

Meet the Expert Breakfast: Pediatric Neurology

Program Objective: The format of the Meet the Expert Breakfast – Pediatric Neurology will be a seizure conference in which two interesting cases will be presented with concomitant video and EEG data with interactive discussions with the audience.

Target Audience: Neurology trainees and individuals involved in the care of children with epilepsy.

Pediatric Epilepsy and Electrophysiology
– *Dr. Fred Andermann and Dr. Bernard Rosenblatt*

Course Lunch with Presentation

Management of Disorders of the Thoracic Spine

Chaired by: Dr. Michael Fehlings

Program Objective: A review of anatomy, clinical biomechanics of the thoracic spine; to obtain instruction and hands-on experience with thorascopic spine surgery and thoracic spine instrumentation.

Target Audience: Neurosurgeons and neurosurgical residents.

Introduction – *Dr. Michael Fehlings*
Anatomy and Biomechanics of the Thoracic Spine
– *Dr. John Hurlbert*
Approaches to the Thoracic Spine – *Dr. Siva Sriharan*
Endoscopic Surgery of the Thoracic Spine
– *Dr. Curtis Dickman*
Segmental Fixation of the Thoracic Spine
– *Dr. Paul Marcotte*
Break and Discussion Period
Hands-on with Sawbones to Work on Posterior Instrumentation Systems of the Thoracic Spine
Hands-on Session with Cadavers to Apply Endoscopic Techniques
Case Discussions and Wrap-up with Moderator
– *Dr. Michael Fehlings*

https://doi.org/10.1017/S0317167100034764 Published online by Cambridge University Press

Motor Neuron Disorders - Role of Clinical and Electrophysiologic Evaluation

Chaired by: Dr. Monique D'Amour and Dr. Jacques De Lean

Program Objective: The course should provide participants with knowledge of the clinical and electrophysiologic criteria for the diagnosis of amyotrophic lateral sclerosis and other motor neuron disorders. There will be a discussion of the criteria proposed over the past few years, mainly for amyotrophic lateral sclerosis, in regard to diagnosis, patient follow-up and therapeutic trials.

Instructional Objective: Participants will be presented with the clinical criteria for motor neuron disorders and, more specifically, amyotrophic lateral sclerosis. Electrophysiologic criteria will then be discussed, so that clinical neurologists and clinical neurophysiologists will appreciate the respective roles of clinical and electrophysiologic evaluation in diagnosing these conditions. The panel discussion is intended to raise questions and provide answers about the proposed criteria for the diagnosis, follow-up and treatment of amyotrophic lateral sclerosis.

Target Audience: Clinical neurologists (adult and pediatric), clinical neurophysiologists, neurology residents, neurophysiology fellows, electroneurophysiology technologists.

Introduction – *Dr. Monique D'Amour*
Diagnosis and Pathophysiology of Amyotrophic Lateral Sclerosis– *Dr. Michael Brooke*
Electromyographic Findings in Amyotrophic Lateral Sclerosis – *Dr. Andrew Eisen*
Electromyographic Findings in Atypical Motor Neuron Disorders– *Dr. Asa Wilbourn*
Quantitative Electromyography in Amyotrophic Lateral Sclerosis – *Dr. Alan J. McComas*
Panel Discussion: Place of Clinical and Electromyographic Evaluation in the Diagnosis, Follow-up and Therapeutic Trials of ALS

Neurogenetics

Chaired by: Dr. Guy Rouleau and Dr. Louis Kunkel

Program Objective: The field of neurogenetics is rapidly evolving and is having a major impact on clinical neurology. The program objectives are to review 1) how neurogenetics is redefining disease classification and 2) recent developments in our understanding of dementing illnesses.

Instructional Objective: Help participants to understand the evolving genetically based classification of certain CNS diseases. Also to provide an update on recent developments in our understanding of Alzheimer's disease and Prion diseases.

Target Audience: Neurologists, residents in neurology and neurobiologists.

Alzheimer's Disease: New Development and Update – *Dr. Peter St. George-Hyslop*
Classification of Hereditary Peripheral Neuropathies – *Dr. Tim Benstead*
Classification of Hereditary Ataxias – *Dr. Guy Rouleau*
Classification of Hereditary Myopathies – *Dr. Louis Kunkel*
Prion Disease – *Dr. John Collinge*

New Issues and Treatment in Multiple Sclerosis

Chaired by: Dr. Jack Antel and Dr. Pierre Duquette

Program Objective: The participants will develop an understanding of current views regarding the immune based pathogenesis of Multiple Sclerosis, the opportunities provided by MR imaging to monitor the disease development, and how insight into the pathogenesis of the disease can be correlated with clinical features and used to develop novel therapies.

Instructional Objective: Participants will be presented with a review of basic principles of immunology and autoimmunity. Specific imaging and clinical features will be presented so that participants will appreciate the application of these measures in practice and research. The presentations on therapy are designed to help improve the neurologist's ability to manage patients with Multiple Sclerosis.

Target Audience: Neurologists involved in clinical care and clinical research related to Multiple Sclerosis.
Immunology of MS Lesion Generation – *Dr. Mark Freedman*
MR Imaging: Criteria for Diagnosis, Usefulness in Prognosis – *Dr. Donald Paty*
Multiple Sclerosis Criteria: Clinical and Laboratory – *Dr. B. Weinshenker*
Recent Advances in Therapy – *Dr. George Ebers*
Treatment of Other Complications Seen in Multiple Sclerosis – *Dr. Pierre Duquette*

New Technologies Applied to Child Neurology

Chaired by: Dr. Michael Shevell

Program Objective: The participants will develop an understanding of a variety of emerging technologies. Specifically the theory behind the technology, the rationale for its application and its potential utility.

Target Audience: Neurologists involved in the care of children.

Functional MRI – *Dr. William Logan*
PET Scanning – *Dr. David Reutens*
Magnetic Resonace Spectroscopy – *Dr. Michael Shevell*
Computers and the Internet – *Dr. Kevin Gordon*
Discussion
New Approaches to Identifying Genes Causing Neurological Disorders – *Dr. Guy Rouleau*
Computerized EEG Monitoring – *Dr. Bernard Rosenblatt*
Near Infrared Spectroscopy – *Dr. A. Du Plessis*
Discussion

Surgical Management of Pediatric Epilepsy Syndromes

Chaired by: Dr. Jean-Pierre Farmer and Dr. Terence Myles

Program Objective: To allow participants to develop an understanding of patient selection and management for children with refractory epilepsy.

Instructional Objective: To help neurologists and electroencephalographers, as well as neuro-radiologists dealing with children, to better understand the surgical candidacy.

Target Audience: Pediatric neurologists and neurosurgeons, electroencephalographers and neuro-radiologists.

Pediatric Epilepsy: When does it become intractable?
– *Dr. Fred Andermann*
Electrophysiology of Epilepsy in Children
– *Dr. Bernard Rosenblatt*
Imaging and Epilepsy of Childhood – *Dr. A.M. O'Gorman*
Functional MRI and Epilepsy of Childhood
– *Dr. G.R. Cosgrove*
Outcome of Epilepsy Following Cerebral Lesionectomy
– *Dr. R. Michael Scott*
Surgical Management of Cortical Dysplagia
– *Dr. André Olivier*
Surgical Adjuncts in the Management of Epilepsy in Childhood – *Dr. Jean-Pierre Farmer*
Outcome of Hemispherectomy in Childhood Seizure Control
– *Dr. José Luis Montes*
Difficult Case Presentation
– *Dr. Fred Andermann and Panel*

Current Management of Cerebrovascular Malformations

Chaired by: Dr. Richard Leblanc

Program Objective: A review of pertinent clinical aspects in the diagnosis and treatment of cerebrovascular malformations will be presented.

Instructional Objective: The attendees will achieve a detailed understanding of the different types of cerebrovascular malformations, their natural history, their diagnosis by modern imaging techniques, and the state-of-the-art in their treatment.

Target Audience: All individuals interested in the treatment of cerebrovascular malformations.

Introduction: Molecular Aspects of Cerebrovascular Malformations – *Dr. Richard Leblanc*
Classification and Management of Dural Fistulas
– *Dr. Christopher Wallace*
Natural History and Management of Cavernous Angiomas
– *Dr. Issam Awad*
Embolization and Cerebral AVMs – *Dr. Donatella Tampieri*
Radiotherapy of AVMs and Cavernous Angiomas
– *Dr. Michael Swartz*
Comprehensive Management of Cerebral Arteriovenous Malformations – *Dr. Robert Spetzler*
Discussion Period

Migraine Headaches

Chaired by: Dr. Michel Aubé and Dr. Allan Purdy

Program Objective: Migraine headache is the most common neurological condition in clinical practice, yet we only recently started to understand the pathophysiology and the therapeutic applications.

Instructional Objective: Recent findings in physiology of migraine, clinical practice guidelines in the treatment of migraine and new medications will be presented.

Target Audience: Neurology residents, adult and pediatric neurologists, basic neuroscientists, nurses.

Pathophysiology of Migraine Dr. Michael Moskowitz
Migraine Clinical Practice Guidelines
– *Dr. William Pryse-Phillips*
Migraine and Hormones
– *Dr. Werner Becker*
New Drugs in the Treatment of Migraine
– *Dr. Marek Gawel*
Case Presentations
– *Dr. Alan Purdy and Dr. Michel Aubé*

New Findings in Alzheimer's Disease

Chaired by: Dr. Serge Gauthier and Dr. Judes Poirier

Program Objective: From a disease with a bleak future, there have been major advances in the genetics and treatment of Alzheimer's disease.

Instructional Objective: Recent survey of the prevalence of Alzheimer's disease in Canada and an update in the diagnosis and treatment of Alzheimer's disease will be presented.

Target Audience: Neurology residents, adult and pediatric neurologists, basic neuroscientists, nurses.

Results of the Canadian Study on Health and Aging
– *Dr. Ian McDowell*
Can apo E4 Help to Better Understand Alzheimer Disease
– *Dr. Judes Poirier*
Role of Selenines in Alzheimer's Disease
– *Dr. Peter St. George-Hyslop*
How to Make the Diagnosis of Alzheimer Disease
– *Dr. Rémi Bouchard*
Treatment of Alzheimer Disease: Present and Future
– *Dr. Serge Gauthier*

https://doi.org/10.1017/S0317167100034764 Published online by Cambridge University Press

Sleep Disorders - Selected Entities

Chaired by: Dr. Monique D'Amour and Dr. Richard Desbiens

Program Objective: Certain entities from several sleep disorders were selected for their interest to clinical neurologists and the electroencephalographists. Some of the entities still pose diagnostic problems for physicians and include abnormal sleep patterns during daytime and abnormal events occuring during sleep in adults and children. The purpose of the course is to shed some light on them.

Instructional Objective: Clinical and electrophysiologic findings in selected sleep disorders will be presented. Their occurrence during certain stages of sleep will be discussed. Sleep activation of some entities will also be described.

Target Audience: Clinical neurologists (adult and pediatric), electroencephalographists, neurology residents, clinical neurophysiology fellows, electroneurophysiology technologists.

Introduction – *Dr. Monique D'Amour*
Narcolepsy – *Dr. Michel Billiard*
Idiopathic Hypersomnia – *Dr. Michel Billiard*
Periodic Limb Movements and Restless Legs Syndrome
– *Dr. Michele Samaritano*
Sleep Apnea in Children – *Dr. Peter Camfield*
Sleep Disorders in Mentally Handicapped Children
– *Dr. Peter Camfield*
Nocturnal Epilepsies – *Dr. Frederick Andermann*
Circadian Rythm, Sleep, Epilepsy – *Dr. Michele Samaritano*
Question Period

Current Concepts in the Management of the Patient with Primary Generalized Seizures - A Case Management Approach

Chaired by: Dr. Joseph Bruni

Program Objective: Neurologists will have a more clear up-to-date understanding regarding the causes, diagnosis, management of the patient with primary generalized seizures.

Target Audience: Neurologists and other health care professionals who are involved in the management of patients with epilepsy.

Genetic Aspects of Primary Generalized Epilepsy TBA
Differential Diagnosis of Primary Generalized Seizures
– *Dr. JM Pellock*
Treatment of the Typical Patient with Primary Generalized Seizures – *Dr. Kevin Farrell*
Treating the Patient with Refractory Primary Generalized Seizures – *Dr. E Ben-Menachem*
Discussion and Questions

THURSDAY, JUNE 18, 1998

Meet the Expert Breakfast: Neurosurgery

Program Objective: Informal access to recognized experts in cerebrovascular and pediatric neurosurgery.

Instructional Objective: An exposition on how expert diagnosis and treatment recommendations are achieved in difficult cases.

Target Audience: Residents and clinicians.

Cerebrovascular Case Presentations
– *Dr. Robert Spetzler and Dr. Michael Scott*

Plenary Session I

Chaired by: Dr. Neelan Pillay and Dr. S. Terence Myles
Introductory Remarks – *Dr. S. Terence Myles*
Opening Remarks by Canadian Astronaut
– *Mr. David Williams*
Mission STS90 dedicated to Neuroscience Research
Speaker of the Royal College of Physicians and Surgeons of Canada -
– *Dr. Albert Aguayo*
Neurology: Regeneration in the Damaged Mammalian Central Nervous System
Speaker of the Royal College of Physicians and Surgeons of Canada – *Dr. R. Michael Scott*
Neurosurgery: Moyamoya Syndrome
K.G. McKenzie Prize Paper in Clinical Neuroscience Research – *Dr. John H. Wong*
Herbert Jasper Prize Paper – *Dr. Robert Chen*
Canadian Society of Clinical Neurophysiologists Guest Lecture - The world of touch. From evoked potentials to conscious perceptions. – *Dr. Alan J. McComas*

Industry Course

Poster Session I

Neurology Debate

Chaired by: Dr. Vladimir Hachinski

Program Objective: In the past year, there have been several studies looking at the efficacy of medications in Alzheimer's disease. During the debate, Drs. Gauthier and Pryse-Phillips will present the benefits and shortcomings of the medication in Alzheimer's disease.

Target Audience: Neurology and neursurgery residents, neurologists, neurosurgeons, and neurology nurses.
Do neurologists have anything to offer to patients with Alzheimer's Disease?
– *Dr. Serge Gauthier and Dr. William Pryse-Phillips*

https://doi.org/10.1017/S0317167100034764 Published online by Cambridge University Press

Free Communications

FRIDAY, JUNE 19, 1998

Poster Session II

Displayed
Author Stand-by Time

Neurosurgery Debate

Chaired by: Dr. Terence Myles

Program Objective: Surgical treatment of colloid cysts of the third ventricle has traditionally been accomplished with craniotomy and a transcortical approach. Neuroendoscopy is a potentially less invasive method for removal of these lesions. At the termination of this debate, audience members will know the indications for and contraindications of these two methods for treating colloid cysts of the third ventricle.

Instructional Objective: The two participants will explore these issues in an attempt to establish the best surgical method for treating these cysts.
Surgical Treatment of Third Ventricular Colloid Cysts: Neuroendoscopic Removal or Microsurgical Craniotomy?
– *Dr. Mark Hamilton and Dr. J. Max Findlay*

Free Communications

Meet the Expert Lunch: Neurology

Chaired by: Dr. Martin Veilleux

Program Objective: Participants will be introduced to recent development in CNS regeneration and potential clinical applications in the future. There will be an informal discussion about future research in the field of nerve regeneration with Dr. Aguayo.

Target Audience: Neurology and neurosurgery residents, and basic neuroscientists.
Experimental Strategies for CNS Repair
– *Dr. Albert Aguayo*

Plenary Session II

Chaired by: Dr. Neelan Pillay and Dr. S. Terence Myles
Introductory Remarks – *Dr. Neelan Pillay*
Francis McNaugthon Memorial Prize Paper
– *Dr. Zhong-Ping Chen*
Richardson Lecture: Pathophysiology of Migraine Headaches – *Dr. Michael Moskowitz*
Penfield Lecture: Skull Base Approaches for Aneurysms
– *Dr. Robert Spetzler*
Exhibit Award
Presentation of the Glaxo-Wellcome and Astra Pharma Inc. CCNS Fellowships
K.G. McKenzie Prize Paper in Basic Neuroscience Research
– *Dr. Matthias Feldkamp*
President's Prizer Paper - Child Neurology
– *Dr. Lynette Sadleir*
Speaker of the Royal College of Physicians and Surgeons of Canada – *Dr. Joseph Volpe*
Pediatric Neurology: Brain Injury in the Premature Infant: Is Prevention Possible?

SATURDAY, JUNE 20, 1998

Advances in Conventional Management and New Therapeutic Options for Malignant Brain Tumours

Chaired by: Dr. Richard Leblanc

Program Objective: An overview of the state-of-the-art in conventional management and a view into new treatments for malignant brain tumours will be presented.

Instructional Objective: The attendees will achieve detailed knowledge in all aspects of current conventional treatment of malignant brain tumours as well as an overview of current issues in gene therapy.

Target Audience: Individuals with an interest in neuro-oncology.

Introduction – *Dr. Richard Leblanc*
Advances in Surgical Management of Malignant Brain Tumours – *Dr. Rolando Del Maestro*
Radiotherapy, Radiosurgery and Radiosensitizers in the Treatment of Malignant Brain Tumours
– *Dr. Jean-Paul Bahary*
Chemotherapy for Malignant Brain Tumours - Current Practice, A Future Direction in the Light of Clinical Trials
– *Dr. Adrian Langleben*
Gene Therapy - Current Practice and Future Directions
Introduction – *Dr. Richard Leblanc*
Genetic Brain Tumour Syndromes and Insight into Sporadic Cases – *Dr. Richard Leblanc*
Virus Vector for Gene Therapy of Malignant Brain Tumours
– *Dr. Karen Johnston*
Clinical Experience with Gene Therapy for Malignant Brain Tumours – *Dr. Mark Bernstein*
Question and Discussions: Panel Member and Audience

Child Neurology Day - Topics in Neonatal Neurology

Chaired by: Dr. Michael Shevell and Dr. Bernard Lemieux

Program Objective: The participants will be exposed to an overview of current topics in Neonatal Neurology and will develop an understanding of current research knowledge and trends in this important area.

https://doi.org/10.1017/S0317167100034764 Published online by Cambridge University Press

Target Audience: Child Neurologists

Cellular and Molecular Mechanisms of Periventricular White Matter Injury of the Premature Infant: Implication for Prevention – *Dr. Joseph Volpe*
Pharmacologic Strategies in the Prevention of Perinatal Brain Injury – *Dr. Jack Aranda*
Discussion
Imaging in Perinatal Brain Injury – *Dr. Alan Hill*
Animal Models in Perinatal Brain Injury – *Dr. Jerome Yager*
Discussion
Long Term Outcome Studies of High Risk Newborns – *Dr. Annette Majnemer*
Controversies in the Diagnosis, Treatment and Outcome of Neonatal Seizures – *Dr. Lionel Carmant*
The Art and Science of Neonatal Neurological Prognostication – *Dr. Michael Shevell*
Case Presentations and Discussion

Prevention and Treatment of Ischemic Stroke

Program Objective: To provide an update on the critical issues surrounding the prevention and acute management of ischemic stroke.

Instructional Objective: Through lectures and discussion to provide participants with clear, pragmatic information concerning the management of stroke patients.

Target Audience: Professionals involved in the care of stroke patients.

Welcome – *Dr. Stephen Phillips and Dr. Robert Côté*
Prevention
Antiplatelet Strategies – *Dr. Kathy Helgeson*
Warfarin for Stroke Prevention – *Dr. Andreas Laupacis*
Surgery for Moderate Symptomatic Carotid Stenosis? – *Dr. H.J.M. Barnett and Dr. Gary Ferguson*
Panel Discussion
Acute Management
Thrombolytics: Indications and the Canadian Experience – *Dr. Philip Teal*
Perspectives on Neuroprotection – *Dr. Alastair Buchan*
Evidence-based Approach to Stroke Rehabilitation – *Dr. Robert Teasell*
Organized Stroke Care – *Dr. Frank Silver*
Panel Discussion

Tremors and Treatment

Chaired by: Dr. Wayne Martin

Program Objective: To review the major neurological disorders which are associated with tremor and to review both traditional and new approaches to the symptomatic treatment of tremor.

Instructional Objective: To provide, by lectures and video illustrations, an overview of the clinical phenomenology and pathophysiology of tremor. As well, to provide adequate time at the end of the session for interactive discussion with the audience.

Target Audience: Residents in neurology and neurosurgery; general neurologists and neurosurgeons

Tremor in Parkinson's Disease – *Dr. Jon Stoessl*
Dystonic Tremor – *Dr. Jean Rivest*
Essential Tremor – *Dr. Bill Koller*
Cerebellar Tremor – *Dr. Bob Lee*
Surgical Treatment in Tremor – *Dr. Oksana Suchowersky*
Biomechanical Approaches to the Treatment of Tremor – *Dr. Arthur Prochazka*
Discussion

Ventilation in the Neurocritical Care Unit

Chaired by: Dr. Jeanne Teitelbaum and Dr. Charles Bolton

Program Objective: This symposium provides a basic and practical approach to respiration in patients with severe neurologic illness. It is often up to the neurologist and the neurosurgeons to help the internist decide when such patients require ventilation, how best to ventilate a patient and when such support is no longer necessary.

Instructional Objective: The course will look at the pathophysiology of respiration, specific problems in neuromuscular diseases and the best way to remove respiratory support.

Target Audience: Residents and practicing physicians in neurology and neurosurgery who treat patients with severe neurological illness.

Respiratory Function in the Critically Ill Patient: Physiology – *Dr. Charles Bolton*
Respiratory Function in Guillain Barré Syndrome – *Dr. Jeanne Teitelbaum*
Weaning from Mechanical Ventilation: A Practical Approach – *Dr. Marc Angle*
Discussion

https://doi.org/10.1017/S0317167100034764 Published online by Cambridge University Press