



28TH ANNUAL MEETING OF

The Eastern Neuroradiological Society

August 11 - 14, 2016

Fairmont Le Château Frontenac
Quebec City, Quebec, CANADA

25.0 AMA PRA Category 1 Credit(s)TM



For more information, visit www.enrs.org

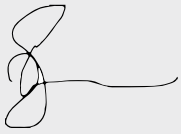
From The Program Chair

Join us for the ENRS 28th Annual Meeting August 11-14, 2016. This will be a wonderful opportunity to vacation with family and friends and to learn and socialize with your peers. The meeting hotel, the Château Frontenac in Quebec City, CANADA, is reportedly the world's most photographed, iconic resort hotel that is the crown jewel of Quebec City, the only UNESCO World Heritage Site in North America.

The Annual Meeting program reflects the expertise of our Program Committee and features a comprehensive and in-depth review of classic neuroimaging as well as advanced, novel, and emerging technologies in ENT, brain tumor, adult stroke, vasculopathies, demyelinating disease, neurodegenerative diseases, spine, and neurointerventional radiology. Additional highlights include pediatric neuroimaging keynote talks; a special session on pediatric stroke featuring keynote speakers who are world experts in pediatric neurology and stroke. There will be multiple SAM sessions embedded into the programming as a benefit to trainees and those of us in the MOC cycle for both initial certification and recertification. The popular Stump the Stars and Scientific paper sessions round out the academic program.

Quebec City is the most European of North American cities with a lovingly preserved old town with cobblestone streets and townhouses, full of romantic charm and steeped in four centuries of history. Perched above all is the Château Frontenac, a posh, castle like resort hotel with pool, spa, and restaurants. Historical, cultural, and gastronomic tourist opportunities beckon at every corner in the Upper Ville and Lower Ville. For exercise enthusiasts, there is great biking and running along the St. Lawrence River. For the adventurous, whale watching tours leave from the port. Although bilingual, French is culturally dominant, so you will feel like you are in the heart of Europe, but are less than an hour away by direct flight from all major Eastern airport hubs in Canada and the US.

ENRS meetings are always my favorite, because it is a rich, worthwhile learning experience, a great way to reconnect with friends and colleagues whom I miss, an opportunity to visit a new, beautiful place that I may not have otherwise known, and a chance to make new friends. I would like to thank the ENRS Executive Committee, the Program Committee members, and our program managers from ESI for all of their tireless efforts to make this meeting successful. I am confident that this will be a terrific learning venue and a relaxing, wonderful mini-vacation. I look forward to seeing all of you in August. À bientôt!



Christopher G. Filippi, M.D. "Risto"

ENRS Vice President / President-elect and Program Committee Chair

Target Audience

The ENRS 28th Annual Meeting is targeted to academic and private practice neuroradiologists in the Northeastern United States and Canada who have an interest and background in the diseases of the central and peripheral nervous system, brain, spine, otolaryngology, and neurointervention in both adults and children, and the meeting is equally targeted to physicians-in-training including residents and fellows who are pursuing radiology.

Accreditation

Physicians: This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint providership of Educational Symposia and the Eastern Neuroradiological Society. Educational Symposia is accredited by the ACCME to provide continuing medical education for physicians.

Educational Symposia designates this live activity for a maximum of 25.0 *AMA PRA Category 1 Credit(s)*TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Self-Assessment Modules (SAMs): Educational Symposia has been granted Deemed Status by the American Board of Radiology (ABR). This allows Educational Symposia to develop and implement SAMs that satisfy ABR Part II MOC requirements.

Educational Objectives

At the conclusion of the meeting, the participant should be able to:

- Review MR Perfusion and MR proton spectroscopy in brain tumor; pediatric brain and pediatric head and neck; spinal tumors and spinal infectious and inflammatory disorders; the work-up for hoarseness in ENT and the top 5 missed diagnoses in the head and neck.
- Demonstrate greater knowledge of imaging and management of acute stroke in adults and children, vasculopathies, and the basics of vessel wall imaging.
- Apply conventional and advanced neuroimaging methods to the diagnosis and treatment of neoplastic and non-neoplastic diseases of the spine.
- Be able to understand the work-up and imaging needed for spinal interventions and biopsies.
- Be able to discuss and apply updates regarding neurointerventional procedures in the head and neck, brain, and carotids as well as in the neurocritical care setting.
- Demonstrate greater knowledge of advanced imaging techniques in brain neoplasm, neurodegenerative disorders, and demyelinating diseases including DTI, MR perfusion, spectroscopy, T1 Rho, and resting state connectivity.
- Better comprehend standard and advanced imaging protocols in neonates and children for the diagnosis of non-accidental trauma, brain neoplasm, spine disorders, congenital malformations, and acute neurotoxicity with special focus on the utility of DTI and SWI.

No special educational preparation is required for this CME activity.

SPECIAL NOTE FOR THE DISABLED: Educational Symposia (ESI) and the Eastern Neuroradiological Society wish to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently from other individuals because of the absence of auxiliary aids and services. If you need any auxiliary aids or services identified in the Americans with Disabilities Act, please contact ESI at (800) 338-5901 or (813) 806-1000.



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ENRS Abstract Submission: Deadline June 3, 2016

Abstracts will be accepted for oral presentation in 2 categories: (1) Scientific Oral Presentation or (2) Excerpta Extraordinaire (brief presentation of interesting, educational case reports). Submissions are welcome in all major categories in Neuroradiology including disorders of the brain, spine, head and neck, pediatrics, interventional neuroradiology, and technical abstracts.

THE DEADLINE for abstract submissions is midnight, EST on **June 3, 2016**. Authors will be notified of the program committee's decision by mid-June. Authors of accepted abstracts are expected to register for the meeting and pay the meeting registration fee.

Interested candidates should submit abstract(s) accompanied by a completed abstract submission form electronically to: Reza Forghani, MD, PhD at rforghani@jgh.mcgill.ca and to Doris Lin, MD at ddmlin@jhmi.edu.

Visit <http://www.edusymp.com/esi/ENRS16/CallforAbstractsRevised-HL.pdf> to access the submission form.

DISCLAIMER: Educational Symposia (ESI) and the Eastern Neuroradiological Society as planners and presenters of this meeting, and Professional Travel as the official travel agency for this meeting, claim no liability for the acts of any suppliers or the safety of any attendees while in transit to, from, or during, this event or any optional activities. The total amount of liability, if any, for the meeting organizers is limited to a refund of the registration fee, and Professional Travel's responsibility is limited to that of an agent.

Program Schedule

Thursday, August 11, 2016

9:00 – 10:00 AM Registration and Visit Technical Exhibits

ADULT BRAIN: NEOPLASM

Moderators: Izlem Izbudak, M.D. and Harris Sair, M.D.

10:00 – 10:25 Clinical Use of Functional MRI
Andrei I. Holodny, M.D.

SAM SESSION

10:25 – 10:55 MR Perfusion
Jerrold L. Boxerman, M.D., Ph.D.

10:55 – 11:25 Proton MR Spectroscopy in Brain Tumor
Orto Rapalino, M.D.

11:25 – 11:35 Big Data Analysis in Brain Tumors: Machine Learning, Artificial Intelligence and Beyond
Peter Chang, M.D.

11:35 – 11:45 Hyperpolarization of MR for Brain Tumor Metabolism
Vesselin Miloushev, M.D., Ph.D.

11:45 – 12:10 PM DTI and White Matter: Brain Tumor Migration Patterns
Mykol Larvie, M.D., Ph.D.

12:10 – 12:30 Scientific Paper Session #1
(not accredited for AMA PRA Category 1 Credit(s)[™] or Category A CE credit)

12:30 – 1:30 Lunch & Learn (TBD) or Lunch On Your Own and Visit Technical Exhibits

ADULT BRAIN: DEMYELINATION VS ADULT BRAIN: NEURODEGENERATION

Moderators: Benjamin Cohen, M.D. and Michael J. Hoch, M.D.

1:30 – 1:55 DBS for the Neuroradiologist: Perspectives on How and Why
Stephen E. Jones, M.D., Ph.D.

1:55 – 2:20 Cerebrovascular Reserve in Aging and Dementia
David J. Mikulis, M.D.

2:20 – 2:50 Computerized Techniques for Monitoring Disease Progression in MS
Michel Bilello, M.D., Ph.D.

2:50 – 3:20 Advanced Tools for Spinal Cord Imaging in MS
Julien Cohen-Adad, Ph.D.

3:20 – 3:40 Scientific Paper Session #2
(not accredited for AMA PRA Category 1 Credit(s)[™] or Category A CE credit)

3:40 – 4:00 Refreshment Break and Visit Technical Exhibits

EMERGING MR TECHNIQUES

Moderators: Amy Fan-Yee Juliano, M.D. and Christopher G. Filippi, MD

4:00 – 4:15 T1 Rho MR Imaging: Applications in the Brain
Christopher G. Filippi, M.D.

4:15 – 4:35 Functional Connectivity as A Clinical Tool
Harris Sair, M.D.

4:35 – 4:55 Perturbing the Brain: High Frequency Ultrasound in Neuroradiology
Raag Airan, M.D., Ph.D.

4:55 – 5:10 DTI of the Spinal Cord
Izlem Izbudak, M.D.

5:10 – 5:30 Advanced Spine Imaging
Lawrence N. Tanenbaum, M.D., FACR

5:30 – 5:50 Introducing PET-MRI to Neuroradiology Practice
Timothy M. Shepherd, M.D., Ph.D.

5:50 – 6:30 Scientific Paper Session #3
(not accredited for AMA PRA Category 1 Credit(s)[™] or Category A CE credit)

6:30 End of Session

6:30 – 8:00 Welcome Reception

Friday, August 12, 2016

7:30 – 8:00 AM Continental Breakfast for Registrants and Visit Technical Exhibits

ADULT BRAIN: STROKE

Moderators: Pina C. Sanelli, M.D., MPH, FACR

8:00 – 8:30 Non-Atherosclerotic CNS Vasculopathies: A Review of Common Pathologies
Pina C. Sanelli, M.D., MPH, FACR

8:30 – 8:50 Intracranial Vascular Wall Imaging for Dummies
A. John Tsiouris, M.D.

8:50 – 9:10 Imaging of Large Vessel Vasculopathies
Pamela W. Schaefer, M.D.

9:10 – 9:30 Neurointerventional Approaches to Intracranial Vasculopathies
Michele H. Johnson, M.D.

9:30 – 9:45 Case-Based Presentations: What Would You Do?
Donatella Tampieri, M.D.

9:45 – 10:00 Refreshment Break and Visit Technical Exhibits

STROKE: PEDIATRIC

Moderators: Karuna Shekdar, M.D. and Arastoo Vossough, Ph.D., M.D.

10:00 – 10:20 Clinical Overview of Pediatric Stroke
Michael J. Rivkin, M.D.

10:20 – 10:40 Arterial Spin Labeling in Pediatric Stroke
Arastoo Vossough, Ph.D., M.D.

10:40 – 11:05 Current Advances in Pediatric Stroke
Gabrielle A. deVeber, M.D., M.H.Sc., F.R.C.P.C

11:05 – 11:30 Cerebrovascular Reserve Imaging In Stroke
David J. Mikulis, M.D.

SAM SESSION

11:30 – 12:00 PM Pediatrics: Brain
Karuna V. Shekdar, M.D. and Aylin Tekes-Brady, M.D.

12:00 – 12:30 Pediatrics: Head and Neck
Jennifer A. Vaughn, M.D.

12:30 – 1:30 Lunch & Learn How-To-Session
Sponsored by GE Healthcare
(not accredited for AMA PRA Category 1 Credit(s)[™] or Category A CE credit)
Dual-Energy CT Applications in Neuroradiology and Head and Neck Imaging: State of the Art
Reza Forghani, M.D., Ph.D.

PEDS NEURO I

Moderators: Thierry A.G.M. Huisman, M.D., EQNR, FICIS

1:30 – 1:50 Non-accidental Trauma in Children: Do Not Forget to Look at the Spine!
V. Michelle Silvera, M.D.

1:50 – 2:10 Brain Malformations: An Update
Bruno P. Soares, M.D.

2:10 – 2:30 Differential Diagnosis of Cerebellar Atrophy in Children
Andrea Poretti, M.D.

2:30 – 2:50 Acute Neurotoxicity in Children: What to Look For
Thierry A.G.M. Huisman, M.D., EQNR, FICIS

2:50 – 3:10 3T Intraoperative MRI: Does It Help?
Asim F. Choudhri, M.D.

3:10 – 3:40 Pediatric Spine
Sarah S. Milla, M.D., FAAP

3:40 – 4:00 Refreshment Break and Visit Technical Exhibits

Friday, August 12, 2016 (continued)

PEDS NEURO II

Moderator: *Thierry A.G.M. Huisman, M.D., EQNR, FICIS*

- 4:00 – 4:20 DTI in Pediatric Neuroimaging: From Quantitative Analysis to Structural Connectivity
Avner Meoded, M.D.
- 4:20 – 4:40 Advanced Neuroimaging Techniques to Study the Pediatric Spine
Laura L. Hayes, M.D.
- 4:40 – 5:00 Scientific Paper Session and/or Excerpta Extraordinaire (not accredited for AMA PRA Category 1 Credit(s)TM or Category A CE credit)
- 5:00 – 6:00 **KEYNOTE LECTURE: Dandy Walker Malformation and Medulloblastoma: Wnt vs SHH: Coincidence or Common Pathway?**
Thomas P. Naidich, M.D., FACR and Charles A. Raybaud, M.D., FRCPC
- 6:00 End of Session**
- 6:00 – 6:20 Scientific Paper Session and/or Excerpta Extraordinaire (not accredited for AMA PRA Category 1 Credit(s)TM or Category A CE credit)
- 6:20 – 6:40 ENRS Annual Business Meeting (Members Only) (not accredited for AMA PRA Category 1 Credit(s)TM or Category A CE credit)
- 6:40 – 6:45 President's Address (not accredited for AMA PRA Category 1 Credit(s)TM or Category A CE credit)
Christopher G. Filippi, M.D.

Saturday, August 13, 2016

- 7:15 – 7:45 AM Breakfast & Learn How-To-Session**
Sponsored by Siemens Medical
(not accredited for AMA PRA Category 1 Credit(s)TM or Category A CE credit)

HEAD AND NECK IMAGING I

Moderators: *Laila Alshafai, M.D., FRCPC and Eugene Yu, M.D., FRCPC*

- 8:00 – 8:20 What I Need From The H&N Cancer Imaging Report and Why
Ian J. Witterick, M.D., MSc, FRCSC
- 8:20 – 8:40 Key Landmarks in H&N Cancer
Hugh D. Curtin, M.D.
- 8:40 – 9:00 HPV and H&N Cancer
Laurent Letourneau-Guillon, M.D.
- 9:00 – 9:20 PET CT in H&N Cancer
Tanya J. Rath, M.D.
- 9:20 – 9:40 Central Skull Base: Anatomic and Pathologic Overview
Reza Forghani, M.D., Ph.D.
- 9:40 – 10:00 Refreshment Break and Visit Technical Exhibits**

HEAD AND NECK IMAGING II

Moderators: *Barry A. Shpizner, M.D. and Eugene Yu, M.D., FRCPC*

- 10:00 – 10:20 Hearing Loss
Gul Moonis, M.D.
- 10:20 – 10:40 Vision Loss
Mary Elizabeth Cunnane, M.D.
- 10:40 – 11:05 Neck Mass
Peter M. Som, M.D., FACR, FRSM
- 11:05 – 11:30 Tinnitus
C. Douglas Phillips, M.D., FACR

SAM SESSION

- 11:30 – 12:00 PM Hoarseness
Mari Haginawa, M.D.
- 12:00 – 12:30 Top 5 Missed Diagnoses in the H&N
Deborah R. Shatzkes, M.D.
- 12:30 – 1:30 Lunch & Learn (TBD) or Lunch On Your Own and Visit Technical Exhibits**

Saturday, August 13, 2016 (continued)

SPINE I: TRAUMA, DEMYELINATION AND TUMOR IMAGING UPDATES

Moderator: *Carlos H. Torres, M.D., FRCPC and Nader Z.K. Zakhari, M.D.*

- 1:30 – 1:50 High Resolution CT in Spine Trauma
Vabe M. Zohrabian, M.D.

SAM SESSION

- 1:50 – 2:20 Infectious and Inflammatory Disorders of the Spine
Gordon K. Sze, M.D., FACR
- 2:20 – 2:50 Spinal Tumors
Anna Derman, M.D.
- 2:50 – 3:10 MR Perfusion of Spine Metastasis
Sasan Karimi, M.D.
- 3:10 – 3:30 MR Imaging of the Brachial Plexus
Carlos H. Torres, M.D., FRCPC
- 3:30 – 3:40 CSF Flow
Ali Noor, M.D.
- 3:40 – 4:00 Refreshment Break and Visit Technical Exhibits**

SPINE II (PROCEDURAL/BIOPSY)

Moderator: *Carlos Torres, M.D. and Nader Z.K. Zakhari, M.D.*

- 4:00 – 4:20 Imaging Spinal CSF Leaks
Peter G. Kranz, M.D.
- 4:20 – 4:40 MR Evaluation of Back Pain
Raquel del Carpio O'Donovan, M.D.
- 4:40 – 4:55 Spinal Intervention: When and Why?
Amish H. Doshi, M.D.
- 4:55 – 5:15 Vascular Lesions of the Spine and Spinal Cord: Imaging Features, Algorithms, and Treatment
Michele H. Johnson, M.D.
- 5:15 – 5:40 Persuasiveness
William K. Erly, M.D., MBA - WNRS President
- 5:40 – 6:30 Stump the Stars
Moderator: *Claudia F.E. Kirsch, M.D.*
- 6:30 End of Session**
- 6:30 – 9:00 Reception/Dinner**

Sunday, August 14, 2016

- 7:30 – 8:00 AM Continental Breakfast for Registrants and Visit Technical Exhibits**

NEURO INTERVENTIONAL

Moderator: *Michele H. Johnson, M.D. and Frank Minja, M.D.*

- 8:00 – 8:15 Emerging Imaging and Intervention in the Neurocritical Care Environment
Thabele M. Leslie-Mazwi, M.D.
- 8:15 – 8:30 Carotid Disease: Imaging to Inform Treatment
Charles Matouk, M.D., FRCS
- 8:30 – 8:50 New Tools and Tricks for Successful Neurointervention 2016
Donatella Tampieri, M.D.
- 8:50 – 9:10 Neurointervention in the Head and Neck
Dheeraj Gandhi, M.D.
- 9:10 – 9:30 Challenges of Post Intervention Imaging
Frank Minja, M.D.
- 9:30 – 9:45 The Good, the Bad, and the Ugly
Michele H. Johnson, M.D.
- 9:45 – 10:00 Question and Answer Session
Faculty
- 10:00 End of Meeting**

Faculty

Raag Airan, M.D., Ph.D.

Stanford University

Laila Alshafai, M.D., FRCPC

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Michel Bilello, M.D., Ph.D.

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Asim F. Choudhri, M.D.

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Johns Hopkins University School of Medicine

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Northwell Health

Pamela W. Schaefer, M.D.

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University of Pennsylvania
The Children's Hospital of Philadelphia*

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New York University

Barry A. Shpizner, M.D. ♦

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Gordon K. Sze, M.D., FACR

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*Children's Hospital of Philadelphia
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University of Toronto

Eugene Yu, M.D., FRCPC ♦

Princess Margaret Cancer Centre University of Toronto

Nader Z.R. Zakhari, M.D.

The Ottawa Hospital

Vahe M. Zohrabian, M.D.

Yale School of Medicine

♦ Moderator

Faculty & topics subject to change.

Registration Information

28th Annual Meeting of

The Eastern Neuroradiological Society

ENRS16

A late fee of \$75 will be added to any registration postmarked after July 11, 2016.

ENRS Member \$425.00

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Resident Fellow Medical Student

Yes, I plan to attend the Welcome Reception \$15.00
Thursday, August 11, 2016

Yes, I plan to attend the Reception / Dinner \$25.00
Saturday, August 13, 2016

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Cancellations: Requests for refund of registration fees, less a \$75.00 administrative fee, will be made to those providing written notification of cancellation by July 11, 2016. After that date, there will be no refunds given for cancellations. Please email notice of cancellation to: lsessa@edusymp.com or fax to 800-344-0668.



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Ideally located inside the walls of Old Quebec, the iconic Fairmont Le Château Frontenac has undergone a multimillion dollar renaissance project that will reposition it as one of the world's leading hotels. The restoration blends the charm of the hotel's enchanting past with modern innovations, creating an allure that is fresh & seductive, balanced with the hotel's rich history & dynamic future.

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Explore the best that Quebec City has to offer. The hotel staff has compiled a list of suggested itineraries and things to do in Quebec City to help you experience the city's most popular attractions and hidden treasures. Please visit www.enrs.edusymp.com to visit the accommodation page which includes further information.

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