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31st Annual Meeting of

The Eastern Neuroradiological Society

August 22 - 25, 2019

New York Marriott at the Brooklyn Bridge • Brooklyn, New York

SAM Credit Available

24.75 AMA PRA Category 1 Credit(s)TM

For more information, visit www.enrs.org



From The Program Chair

On behalf of the Eastern Neuroradiological Society, I would like to invite you to join us for the 31st Annual Meeting of the Society held on August 22 – 25, 2019. This year's meeting will be held at the New York Marriott at the Brooklyn Bridge, in Brooklyn, New York.

The Annual Meeting program represents a comprehensive, in-depth review of neuroradiology and head and neck imaging. The topics covered range from practical reviews of common topics to those of advanced imaging techniques and emerging technologies. Topics covered will include adult brain imaging and stroke imaging, head and neck imaging, imaging of the spine, pediatric neuroimaging, and interventional neuroradiology. This year, the advanced imaging session will also include lectures on artificial intelligence. The purpose is to make the audience familiar with this important technology that is likely to have increasing impact on the practice of radiology and medicine in general. Like previous years, multiple SAM sessions are embedded in the program, further enriching the experience and helping with MOC cycle certification and recertification.

The meeting location, Brooklyn, New York, hardly needs an introduction. The meeting will take place at the heart of one of the most cosmopolitan and culturally diverse cities in the world, easily accessible from anywhere on the east coast. The New York Marriott at the Brooklyn Bridge is near the vibrant neighborhoods of Brooklyn Heights and DUMBO, as well as the waterfront Brooklyn Bridge Park and Brooklyn Heights Promenade with spectacular views of the Manhattan skyline. The subway station and ferry landing are minutes away, as are the iconic Brooklyn Bridge and Manhattan Bridge, providing easy access around Brooklyn and Manhattan. Whether you enjoy dining, Broadway shows, operas, museums, parks, nightclubs or world-class shopping, New York has it all. For those not familiar with the city, we have taken advantage of the "insider" knowledge of our New York colleagues in order to provide up-to-date information on the best dining, shopping and sightseeing locales. Brooklyn is truly the new Manhattan, one of New York city's most exciting boroughs with a "cool" and vibrant community.

ENRS is one of my favorite meetings because it provides a rich, state-of-the-art program in an intimate and friendly atmosphere. It allows us to meet the experts and the up and comings, learn from one another, and socialize in an informal atmosphere. Please join us for this exciting educational and social experience in one of the greatest cities in the world, put together through the hard work of our excellent program and executive committees, and the program managers at ESI whom I would like to thank for their hard work.

I look forward to seeing you all in August.

Reza Forghani

Reza Forghani, MD, PhD, FRCP

ENRS Vice President / President-Elect and Program Committee Chair



SPECIAL NOTE FOR THE DISABLED: Educational Symposia (ESI) and the Eastern Neuroradiological Society (ENRS) 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 (813) 806-1000.

DISCLAIMER: Educational Symposia (ESI) and the Eastern Neuroradiological Society (ENRS) 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.

Target Audience

The ENRS 31st Annual Meeting is targeted to academic and private practice neuroradiologists, general radiologists, and other health professionals with an interest in neuroimaging and head and neck imaging in the Northeastern United States and Canada. The meeting is also targeted to trainees and is an excellent venue for physicians-in-training, including residents and fellows, to enhance their knowledge. The meeting covers imaging of diseases of the brain, spine, otolaryngology, as well as neurointervention in adults and children. The imaging techniques covered range from routine, commonly used ones to the most recent, cutting-edge techniques.

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 24.75 *AMA PRA Category 1 Credit(s)*[™]. 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:

- Describe and characterize various brain neoplasms and their mimics and evaluate emergent conditions of the brain.
- Use advanced imaging techniques including perfusion, spectroscopy, and functional imaging for pre-operative evaluation of brain tumors and tumor response to treatment.
- Evaluate and differentiate demyelinating, inflammatory, and infectious disorders and their mimics in the brain as well as neurodegenerative diseases using conventional and newer imaging techniques. Identify common treatment-related complications in the brain.
- Describe and effectively evaluate, using conventional and advanced imaging techniques, different stroke etiologies and neurovascular diseases of the CNS.
- Effectively evaluate and derive a differential diagnosis for various diseases in the neck, sinonasal cavity, orbit, and temporal bone.
- Develop an approach for pre-operative evaluation and staging of head and neck cancer and post-treatment surveillance.
- Develop an approach for the evaluation of common ENT disorders including tinnitus, otalgia, facial weakness, and acquired sensorineural hearing loss.
- Identify the radiologic anatomy of the skull base, temporal bone and pituitary fossa and characterize various pathologies affecting the skull base and temporal bone.
- Develop an approach for the evaluation of the post-operative temporal bone.
- Evaluate emergent conditions of the extracranial head and neck.
- Evaluate various neoplastic and non-neoplastic demyelinating, inflammatory, infectious, and vascular disorders in the spine. Develop an approach for the evaluation and reporting of the degenerative conditions of the spine.
- Discuss advanced imaging techniques and their applications in the spine. Develop approaches for optimizing technique in spine imaging.
- Describe and characterize various pediatric brain and spine neoplasms and their mimics.
- Develop an approach for the evaluation of pediatric disorders affecting the brain, including metabolic disorders and developmental malformations of the CNS.
- Develop an approach for evaluating fetal MRIs.
- Become familiar with advanced pediatric imaging techniques and develop strategies for decreasing sedation in pediatric neuroimaging.
- Discuss cutting-edge advanced imaging and image post-processing techniques and their applications including dual-energy CT, 7 Tesla MRI, 3D printing and advanced visualization, radiomics & radiogenomics, and artificial intelligence.
- Review and apply health policy recommendations and clinical practice tips including establishing a clinic-based reading service.

No special educational preparation is required for this CME activity.

2018-2019 ENRS Executive Committee

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Program Schedule

Thursday, August 22, 2019

8:00 AM Meeting Registration

8:50 – 9:00 Introduction and Welcome

ADULT BRAIN: NEOPLASM

Moderators: Laurie A. Loevner, MD and Jared M. Steinklein, MD

SAM SESSION

9:00 – 9:20 Imaging of Brain Tumors
Joseph M. Mettenburg, MD, PhD

9:20 – 9:40 The Role of Proton MR Spectroscopy and Perfusion Imaging for Pretreatment Evaluation of Brain Tumors
Otto Rapalino, MD

9:40 – 10:00 WHO Brain Tumor Classification - What a Neuroradiologist Needs to Know
Reza Hakimelahi, MD

10:00 – 10:20 Refreshment Break and Visit Technical Exhibits

ADULT BRAIN: NEOPLASM, COMPLICATIONS & MIMICS

Moderators: Gloria Chiang, MD and Carlos I. Torres, MD

10:20 – 10:40 Multi-Parametric Assessment of Treatment Response
Ronald L. Wolf, MD, PhD

10:40 – 11:00 Neoplasm or Not?
Jacqueline A. Bello, MD, FACR

11:00 – 11:15 Infratentorial Brain Tumors
Keivan Shifteh, MD, FACR

11:15 – 11:30 fMRI and Tractography for Neurosurgical Planning
Robert J. Young, MD

11:30 – 11:45 Treatment Related Complications and Their Mimics in the CNS
Sachin Gujar, MBBS, MD

11:45 – 12:00 PM **Scientific Paper Session #1** ♦
Moderators: Doris Lin, MD, Carlos H. Torres, MD, FRCPC and Laurent Letourneau-Guillon, MD

12:00 – 1:20 Lunch On Your Own

PEDIATRIC I

Moderators: Diana P. Rodriguez, MD and Karuna V. Shekdar, MD

1:20 – 1:40 Congenital Pediatric Spine
Erin Simon Schwartz, MD, FACR

1:40 – 2:00 Pediatric Spine Tumors
Karuna V. Shekdar, MD

2:00 – 2:20 Inborn Errors Of Metabolism, Myelin Disorders, And Childhood Ataxia - Diagnostic Clues From Down Under
Paul A. Caruso, MD

2:20 – 2:40 Fetal MRI
Elka Miller, MD, FRCPC

2:40 – 3:00 Advanced Pediatric MR Imaging Techniques
Mai-Lan Ho, MD

3:00 – 3:20 Refreshment Break and Visit Technical Exhibits

ADULT BRAIN: NON-TUMOR

Moderators: C. Douglas Phillips, MD, FACR and Amar Vora, MD

3:20 – 3:40 Imaging of MS: What the Clinician Needs to Know
Susie Y. Huang, MD

3:40 – 4:00 It's Not MS – Other White Matter Disease
Sam Payabvash, MD

4:00 – 4:20 CNS Infections – New Thoughts
A. John Tsiouris, MD

4:20 – 4:40 PET-MRI in Dementia Evaluations
Gloria Chiang, MD

4:40 – 4:50 Low Dose and No-Dose Gadolinium Protocols
Bidyut K. Pramanik, MD

4:50 – 5:00 Creating a Successful Clinic-Based Reading Service
C. Douglas Phillips, MD, FACR

5:00 End of Session

5:00 – 6:00 **Scientific Paper Session #2** ♦
Moderators: Doris Lin, MD, Carlos H. Torres, MD, FRCPC and Laurent Letourneau-Guillon, MD

6:30 Welcome Reception

Friday, August 23, 2019

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

STROKE I

Moderators: Pamela W. Schaefer, MD and Sean Symons, MD

SAM SESSION

8:00 – 8:20 Acute Stroke Triage and Treatment – Early Window (0 – 6 hours)
Kambiz Nael, MD

8:20 – 8:40 Acute Stroke Triage and Treatment – Late Window (6 – 24 hours)
Philip M. Meyers, MD, FACR, FSIR, FAHA

8:40 – 9:00 Treatment of Large Core Strokes
Scott B. Raymond, MD

9:00 – 9:20 Pediatric Stroke Update
Richard L. Robertson, MD

9:20 – 9:40 Stroke Mimics
Jana Ivanidze, MD, PhD

9:40 – 10:00 Advanced Imaging in the Evaluation of Hemorrhagic Stroke
Javier M. Romero, MD, FAHA

10:00 – 10:20 Refreshment Break and Visit Technical Exhibits

PEDIATRIC II

Moderators: Manohar M. Shroff, MD, FRCPC and Bruno P. Soares, MD

10:20 – 10:40 Strategies to Decrease Sedation in Pediatric Neuroimaging
Camilo Jaimes Cobos, MD

10:40 – 11:00 Updated WHO Classification for Pediatric Brain Tumors
Tina Young Pousaint, MD, FACR

11:00 – 11:20 Neurometabolic Emergencies
Birgit Ertl-Wagner, MD

11:20 – 11:40 Autoimmune Encephalitis
Manohar M. Shroff, MD, FRCPC

11:40 – 12:00 PM Cobblestone Cortical Malformations: From Molecular Basis to Imaging Phenotypes
Alireza Radmanesh, MD

12:00 – 1:20 Lunch On Your Own

SPINE I

Moderators: Anna Derman, MD and Amish H. Doshi, MD

1:20 – 1:40 Optimizing Your Spine Imaging Protocols: Tips and Tricks
Lawrence N. Tanenbaum, MD, FACR

1:40 – 2:00 AO Classification and TLICS - What the Surgeon Wants to Know
Charles H. Cho, MD, MBA

2:00 – 2:20 Imaging of the Post-Operative Spine
William A. Mehan, Jr., MD, MBA

2:20 – 2:40 Lines and Spines: Imaging Evaluation of Spinal Deformities
Majid Khan, MD

2:40 – 2:50 Spinal Imaging of Spondyloarthropathies
Puneet B. Belani, MD

2:50 – 3:00 MRA of Spinal Vascular Disease: Protocols and Pathology
Michele H. Johnson, MD, FACR, FASER

3:00 – 3:20 Refreshment Break and Visit Technical Exhibits

ADVANCED TECHNIQUES, ARTIFICIAL INTELLIGENCE & POLICY

Moderators: Rajiv Gupta, MD and Timothy M. Shepherd, MD, PhD

3:20 – 3:40 Radiomics and Radiogenomics for Tumor Characterization
Christopher G. Filippi, MD

3:40 – 4:00 A Primer on Artificial Intelligence: From Basics to Future Horizons
Reza Forghani, MD, PhD

4:00 – 4:20 Advanced Image Visualization & 3D Printing
Edward P. Quigley, III, MD, PhD

4:20 – 4:40 Dual Energy CT Applications in Neuroimaging & Head and Neck Imaging
Daniel J. Boulter, MD

4:40 – 4:50 Overview of 7T MR Imaging
Bradley N. Delman, MD

4:50 – 5:10 D.C. Update From a Senior Fellow of the Neiman Policy Institute
Joshua A. Hirsch MD, FACR, FSIR, FSNIS

5:10 End of Session

Friday, August 23, 2019 (Continued)

- 5:10 – 5:35 **Scientific Paper Session #3** ♦
Moderators : Doris Lin, MD, Carlos H. Torres, MD, FRCPC and Laurent Létourneau-Guillon, MD
- 5:40 – 6:00 ASNR President's Address & Lecture ♦
- 6:00 – 6:30 **ENRS Annual Business Meeting (ENRS Members Only)** ♦

Saturday, August 24, 2019**7:00 – 8:00 AM Continental Breakfast for Registrants and Visit Technical Exhibits****HEAD AND NECK IMAGING I**

Moderators: Manon Belair, MD and David Landry, MD

SAM SESSION

- 8:00 – 8:20 Tinnitus
Ashok Srinivasan, MD
- 8:20 – 8:40 Otagia
Mari Hagiwara, MD
- 8:40 – 9:00 Facial Weakness
Amy Fan-Yee Juliano, MD
- 9:00 – 9:20 Nodal Staging in Head and Neck Cancer: Evidence Based Best Practices
Peter M. Som, MD, FACP, FRSM
- 9:20 – 9:30 You've Got to See This Case!
Karen Buch, MD
- 9:30 – 9:40 Acquired Sensorineural Hearing Loss
Marie-Constance Lacasse, MD, FRCPC
- 9:40 – 10:00 Surveillance Imaging in H/N Ca: Evidence Based Best Practices
Eugene Yu, MD, FRCPC
- 10:00 – 10:20 Refreshment Break and Visit Technical Exhibits**

STROKE & VESSELS II

Moderators: Clifford J. Eskey, MD, PhD and Pina C. Sanelli, MD, MPH, FACP

- 10:20 – 10:40 Large Vessel Vasculopathies
Pamela W. Schaefer, MD
- 10:40 – 11:00 Intracranial Vessel Wall Imaging for Distinguishing Neurovascular Diseases
Bruce A. Wasserman, MD
- 11:00 – 11:20 Small Vessel Vasculopathies
Pina C. Sanelli, MD, MPH, FACP
- 11:20 – 11:40 Carotid Plaque Imaging
Jae W. Song, MD, MS
- 11:40 – 12:00 PM Molecular Imaging of Vascular Inflammation
John W. Chen, MD, PhD

12:00 – 1:20 Lunch On Your Own**SPINE II**

Moderators: Amit Aggarwal, MD and Harpit S. Bedi, MD

SAM SESSION

- 1:20 – 1:40 Infections of the Spine and Spinal Cord
Asim Z. Mian, MD
- 1:40 – 2:00 Imaging of Myelopathy: A Practical Approach
Maria J. Borja, MD
- 2:00 – 2:20 Non-Traumatic Spine Emergencies
Carlos H. Torres, MD, FRCPC
- 2:20 – 2:40 Advanced Imaging of Vertebral Body Lesions
Puneet S. Pawha, MD
- 2:40 – 2:50 CDE and Structured Reporting in the Spine
Adam E. Flanders, MD
- 2:50 – 3:00 AI and Machine Learning in Spine Imaging: Review of Current Trends
Javin Schefflein, MD
- 3:00 – 3:20 Refreshment Break and Visit Technical Exhibits**

Saturday, August 24, 2019 (Continued)**HEAD AND NECK IMAGING II**

Moderators: Laila Al Shafai, MD and Deborah R. Shatzkes, MD

- 3:20 – 3:40 DDx: Parotid Mass
Claudia F.E. Kirsch, MD
- 3:40 – 4:00 DDx: Sinonasal Mass
Rihan Khan, MD
- 4:00 – 4:20 DDx: Orbital Mass
Stephanie Lam, MD
- 4:20 – 4:40 DDx: Adult Neck Mass
Carlos I. Torres, MD
- 4:40 – 4:55 DDx: Pediatric Neck Mass
Karen K. Moeller, MD
- 4:55 – 5:10 DDx: Middle Ear Mass
Hillary R. Kelly, MD
- 5:10 – 6:00 Stump the Stars
Moderator: Laurent Létourneau-Guillon, MD
- 6:00 End of Session**
- 6:30 Closing Reception and Annual Dinner**

Sunday, August 25, 2019**7:00 – 8:00 AM Continental Breakfast for Registrants and Visit Technical Exhibits****HEAD AND NECK IMAGING III**

Moderators: Amit Mahajan, MD and Osamu Sakai, MD, PhD, FACP

- 8:00 – 8:20 Sellar & Parasellar Anatomy & Pathology
Girish M. Fatterpekar, MBBS, DNB, MD
- 8:20 – 8:40 Central Skull Base Variants & Pathology
Suyash Moban, MD
- 8:40 – 9:00 Temporal Bone Trauma
Vikas Jain, MBBS
- 9:00 – 9:20 Post-Operative Temporal Bone
Gul Moonis, MBBS
- 9:20 – 9:30 Head and Neck Case Review: 5 Key Pearls to Avoid Pitfalls
Eric S. Bartlett, MD, MPH
- 9:30 – 9:50 Acute Non-Traumatic ENT Emergencies
Tanya J. Rath, MD

9:50 – 10:10 Refreshment Break and Visit Technical Exhibits**NEURO INTERVENTIONAL**

Moderators: Allan L. Brook, MD, FSIR and Michele H. Johnson, MD, FACP, FASER

- 10:10 – 10:30 Carotid Stenosis: CEA, CAS, TCAR or Medicine, What is the Evidence
Reade DeLeacy, MD, MBBS (Hons) FRANZCR
- 10:30 – 10:50 Thrombectomy for Large Vessel Occlusion Strokes: How Does Imaging Influence Triage?
Donatella Tampieri, MD, FRCPC
- 10:50 – 11:10 The Unruptured Aneurysm: Optimal Imaging and Treatment Strategies for Management
Clifford J. Eskey MD, PhD
- 11:10 – 11:30 The ABCs of Endovascular Aneurysm Treatment
Peter K. Nelson, MD
- 11:30 – 11:45 New Frontiers in Neurointervention: Beyond Glue and Coils
Dheeraj Gandhi, MD

11:45 – 12:00 PM Closing Comments**12:00 End of Meeting**

Faculty & topics subject to change.

♦ Session not accredited for AMA PRA Category 1 Credit(s)TM**ENRS Abstract Submission:****Deadline for abstract submissions****June 5, 2019**

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. Authors will be notified by mid-June. Authors of accepted abstracts will be required 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: Laurent Letourneau-Guillon MD, MSc at laurent.letourneau-guillon.1@umontreal.ca.

Visit <https://www.edusymp.com/esi/2019/ENRS19/CallforAbstracts2019.pdf> to access the submission form.

Invited Faculty

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Eric S. Bartlett, MD, MPH

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ENRS19

A late fee of \$75 will be added to any registration postmarked after **July 22, 2019**.

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