



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)[™]

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, FRCPC ENRS Vice President / President-Elect and Program Committee Chair

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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 that of an agent.

Target Audience

The ENRS 31" 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)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:

- 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.

2018-2019 ENRS Executive Committee

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FRQS Clinical Research Scholar and Clinical Investigator, McGill University Health Center Research Institute, Segal Cancer Centre, & Lady Davis Research Institute Montreal, Quebec, CANADA

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NEUROINTERVENTIONAL:

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SCIENTIFIC PRESENTATIONS:

Laurent Letourneau-Guillon, MD

Clinical Assistant Professor Centre Hospitalier de l'Université de Montréal (CHUM) Montreal, Quebec, CANADA

Doris D.M. Lin, MD, PhD

Associate Professor of Radiology and Radiological Science Johns Hopkins University School of Medicine The Johns Hopkins Hospital Baltimore, MD

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STUMP THE STARS:

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Deborah R. Shatzkes, MD

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Program Schedule

B:00 AM	Meeting Registration				
8:50 – 9:00	Introduction and Welcome				
ADULT BRAIN: N					
	. Loevner, MD and Rohini Nadgir, 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 <i>Otto Rapalino, MD</i>				
9:40 - 10:00	WHO Brain Tumor Classification - What a Neuroradiologist Needs to Know <i>Reza Hakimelahi, MD</i>				
10:00 – 10:20	Refreshment Break and Visit Technical Exhibits				
	EOPLASM, COMPLICATIONS & MIMICS				
<i>Moderators: Gloria</i> () 10:20 – 10:40	hiang, MD and Rohini Nadgir, MD 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 Karem Gharzeddine, MD				
11:30 – 11:45	Treatment Related Complications and Their Mimics in the CNS Sachin Gujar, MBBS, MD				
11:45 – 12:15 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				
	Rodriguez, MD and Karuna V. Shekdar, MD				
:20 – 1:40	Congenital Pediatric Spine Erin Simon Schwartz, MD, FACR				
: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 <i>Paul A. Caruso, MD</i>				
2:20 – 2:40	Fetal MRI Elka Miller, MD, FRCPC				
2:40 – 3:00	Advances in Pediatric MRI Mai-Lan Ho, MD				
3:00 – 3:20	Refreshment Break and Visit Technical Exhibits				
ADULT BRAIN: N					
Moderators: C. Doug 3:20 – 3:40	las Phillips, MD, FACR and Amar Vora, MD Imaging of MS: What the Clinician Needs to Know				
3:40 – 4:00	Susie Y. Huang, MD 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 – 6:30	Scientific Paper Session #2 ♦ Moderators : Doris Lin, MD, Carlos H. Torres, MD, FRCPC and				
	Laurent Létourneau-Guillon, MD				

Friday, August 23, 2019

7:00 – 7:30 AM	Breakfast & Learn ♦ Sponsored by Icometrix			
STROKE I Moderators: Pamela V	W. Schaefer, MD and Sean Symons, MD			
SAM SESSION				
8:00 - 8:20	Acute Stroke Triage and Treatment – Early Window (0 - 6 hours) <i>Kambiz Nael, MD</i>			
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 <i>Pamela W. Schaefer, MD</i>			
10:00 – 10:20 PEDIATRIC II	Refreshment Break and Visit Technical Exhibits			
	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 <i>Tina Young Poussaint, MD, FACR</i>			
11:00 - 11:20	Neurometabolic Emergencies Birgit Ertl-Wagner, MD			
11:20 - 11:40	Autoimmune Encephalitis Manohar M. Shroff, MD, FRCPC Cohelectore Corticel Malformationer			
11.40 - 12.00 FM	Cobblestone Cortical Malformations: From Molecular Basis to Imaging Phenotypes <i>Alireza Radmanesh, MD</i>			
12:00 – 1:00	Lunch & Learn ♦ Sponsored by GE Healthcare			
SPINE I Moderators: Anna De	rman, MD and Amish H. Doshi, MD			
1:20 – 1:40	Optimizing Your Spine Imaging Protocols: Tips and Tricks <i>Lawrence N. Tanenbaum, MD, FACR</i>			
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 <i>Majid Khan, MD</i>			
2:40 – 2:50	Spinal Imaging of Spondyloarthropathies <i>Puneet B. Belani, MD</i>			
2:50 – 3:00	MRA of Spinal Vascular Disease: Protocols and Pathology Michele H. Johnson, MD, FACR, FASER			
3:00 – 3:20 ADVANCED TECI	Refreshment Break and Visit Technical Exhibits HNIQUES, ARTIFICIAL INTELLIGENCE & POLICY			
Moderators: Rajiv Gu	pta, 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 <i>Reza Forghani, MD, PhD</i>			
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			

5:10 – 5:35	3, 2019 (Continued) Scientific Paper Session #3 ♦ Medantary Datis Lin MD, Cale II, Turn, MD, EBCDC, and	Saturday, Augus HEAD AND NECH	К ІМА
	Moderators : Doris Lin, MD, Carlos H. Torres, MD, FRCPC and Laurent Létourneau-Guillon, MD	Moderators: Laila Al 3:20 – 3:40	Shafai DDx:
5:40 - 6:00	ASNR President's Address & Lecture ◆	0.20 0.10	Clau
6:00 – 6:30	ENRS Annual Business Meeting (ENRS Members Only) ♦	3:40 - 4:00	DDx: Debo
Saturday, Augus 7:00 – 8:00 AM	t 24, 2019 Continental Breakfast for Registrants and Visit Technical Exhibits	4:00 - 4:20	DDx: Steph
7:15 - 7:45	Scientific Paper Session #4 ♦ Moderators : Doris Lin, MD, Carlos H. Torres, MD, FRCPC and	4:20 - 4:40	DDx: Carlo
HEAD AND NECH	Laurent Létourneau-Guillon, MD	4:40 - 4:55	DDx: Karer
	Belair, MD and David Landry, MD	4:55 – 5:10	DDx:
SAM SESSION		5:10 - 6:00	<i>Hilla</i> Sturr
8:00 - 8:20	Tinnitus Ashok Srinivasan, MD	0.10 0.00	Mode
8:20 - 8:40	Otalgia	6:00	End
8:40 –9:00	Mari Hagiwara, MD Facial Weakness	6:30 Supday August (Clos
0.40 -9.00	Amy Fan-Yee Juliano, MD	Sunday, August 2 7:00 – 8:00 AM	25, 20 Cont
9:00 – 9:20	Nodal Staging in Head and Neck Cancer: Evidence Based Best Practices Peter M. Som, MD, FACR, FRSM	7:15 - 7:45	Visit Scie
9:20 – 9:30	You've Got to See This Case!		Mode Laure
0.20 0.40	Karen Buch, MD	HEAD AND NECH	
9:30 – 9:40	Acquired Sensorineural Hearing Loss Marie-Constance Lacasse, MD, FRCPC	Moderators: Amit Ma 8:00 – 8:20	
9:40 – 10:00	Surveillance Imaging in H/N Ca: Evidence Based Best Practices <i>Eugene Yu, MD, FRCPC</i>	8:20 - 8:40	Sella Girisi Cent
10:00 – 10:20	Refreshment Break and Visit Technical Exhibits		Suyas
STROKE & VESS		8:40 - 9:00	Tem Vikas
10:20 – 10:40	J. Eskey, MD, PhD and Pina C. Sanelli, MD, MPH, FACR Large Vessel Vasculopathies Pamela W. Schaefer, MD	9:00 - 9:20	Post Gul I
10:40 – 11:00	Instruction in Cost of the Imaging for Distinguishing Neurovascular Diseases	9:20 – 9:30	Head Eric S
	Bruce A. Wasserman, MD	9:30 – 9:50	Acut Tany
11:00 – 11:20	Small Vessel Vasculopathies Pina C. Sanelli, MD, MPH, FACR	9:50 – 10:10	Refr
11:20 – 11:40	Carotid Plaque Imaging Jae W. Song, MD, MS	NEURO INTERVE Moderators: Allan L.	
11:40 – 12:00 PM	Molecular Imaging of Vascular Inflammation John W. Chen, MD, PhD	10:10 – 10:30	Caro Wha <i>Reade</i>
12:00 – 1:20 SPINE II Modaratore: Amit An	Lunch On Your Own garwal, MD and Harpit S. Bedi, MD	10:30 - 10:50	Thro How
SAM SESSION	urwu, mD unu 11urpu 3. Deu, mD	10:50 – 11:10	Dona The
1:20 – 1:40	Infections of the Spine and Spinal Cord Asim Z. Mian, MD	10.30 - 11.10	Treat Cliffo
1:40 - 2:00	Imaging of Myelopathy: A Practical Approach Maria J. Borja, MD	11:10 – 11:30	The Peter
	Non-Traumatic Spine Emergencies Carlos H. Torres, MD, FRCPC	11:30 – 11:45	New Dhee
2:00 - 2:20		11:45 – 12:00 PM	Clos
2:00 – 2:20 2:20 – 2:45	Advanced Imaging of Vertebral Body Lesions Puneet S. Pawha, MD	12:00 PM	End
			End

2019 (Continued)

HEAD AND NECK Moderators: Laila Al	K IMAGING II 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 Deborah R. Shatzkes, 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 2	5, 2019	
7:00 – 8:00 AM	Continental Breakfast for Registrants and Visit Technical Exhibits	
7:15 - 7:45	Scientific Paper Session #5 ♦ Moderators: Doris Lin, MD, Carlos H. Torres, MD, FRCPC and Laurent Létourneau-Guillon, MD	
HEAD AND NECK Moderators: Amit Ma	K IMAGING III hajan, MD and Osamu Sakai, MD, PhD, FACR	
8:00 - 8:20	Sellar & Parasellar Anatomy & Pathology Girish M. Fatterpekar, MBBS, DNB, MD	
8:20 - 8:40	Central Skull Base Variants & Pathology Suyash Mohan, MD	
8:40 - 9:00	Temporal Bone Trauma <i>Vikas Jain, MBBS</i>	
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 <i>Eric S. Bartlett, MD, MPH</i>	
9:30 - 9:50	Acute Non-Traumatic ENT Emergencies <i>Tanya J. Rath, MD</i>	
9:50 – 10:10	Refreshment Break and Visit Technical Exhibits	
NEURO INTERVE Moderators: Allan I	NTIONAL Brook, MD, FSIR and Michele H. Johnson, MD, FACR, FASER	
10:10 – 10:30	Carotid Stenosis: CEA, CAS, TCAR or Medicine, What is the Evidence <i>Reade DeLeacy, MD, MBBS (Hons) FRANZCR</i>	
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 <i>Clifford J. Eskey MD, PhD</i>	
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 <i>Dheeraj Gandhi, MD</i>	
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)™

ENRS Abstract Submission:

Deadline for abstract

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.

submissions June 5, 2019

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

Invited Faculty

Amit Aggarwal, MD Icahn School of Medicine at Mount Sinai

Laila Al Shafai, MD Princess Margaret Cancer Centre University of Toronto

Eric S. Bartlett, MD, MPH *Princess Margaret Cancer Centre University of Toronto*

Harprit S. Bedi, MD Boston University School of Medicine

Manon Belair, MD Centre Hospitalier de l'Université de Montréal

Puneet B. Belani, MD Mount Sinai Hospital, New York

Jacqueline A. Bello, MD, FACR Montefiore Medical Center

Maria J. Borja, MD NYU School of Medicine

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Allan L. Brook, MD, FSIR Montefiore Medical Center

Karen Buch, MD Massachusetts General Hospital

Paul A. Caruso, MD Massachusetts Eye and Ear Infirmary

John W. Chen, MD, PhD Massachusetts General Hospital

Gloria Chiang, MD Weill Cornell Medicine, New York Presbyterian Hospital

Charles H. Cho, MD, MBA Harvard Medical School

Camilo Jaimes Cobos, MD *Boston Children's Hospital*

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Sachin Gujar, MBBS, MD Johns Hopkins Medical Institutions

Rajiv Gupta, MD Harvard Medical School

Mari Hagiwara, MD New York University Langone Medical Center

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