



32nd Annual Meeting of

The Eastern Neuroradiological Society

We've Gone Virtual!

August 27 – 30, 2020

Scheduled for Eastern Standard Time

SAM Credit Available

22.0 AMA PRA Category 1 Credit(s)TM

Call for Abstracts • Deadline: July 24, 2020

Those accepted need to prepare to submit final electronic poster by August 7th.

[Click Here](#) to access the abstract submission form.

For more information, visit www.enrs.org



From the Program Chair

Dear friends of the Eastern Neuroradiological Society,

We are faced with unprecedented times in the midst of the COVID-19 pandemic, and times like these call for change to adjust to a new norm. On behalf of the Executive and Program Committee, I look forward to welcoming you to the 32nd Annual Meeting of the ENRS, August 27th – 30th, **now our very first virtual event at a significantly reduced registration fee!**

The 2019/2020 ENRS program committee and I are committed to offering the same first-rate educational courses previously scheduled. We have an expert team of neuroradiologists who are all exceptional clinicians/neuroradiologists, influential educators/teachers, and accomplished scientists/researchers with 13 focused scientific sessions covering the following topics: ENT/Head and Neck Radiology; Artificial Intelligence, machine learning, and radiomics; Neurovascular anomalies and Neurovascular Genetics; Pediatric Neuroradiology; Autoimmune diseases and Inflammation; The aging brain including Alzheimer's and Nuclear Neuroradiology; Why become a neuroradiologist, what to expect, fellowship; Stroke Imaging; System operations, resources, and workflow; Cerebral neoplasms and molecular/genetic subtyping; Hydrocephalus, CSF circulation disorders and beyond; Spine, spinal cord and brachial plexus; Emergency neuroimaging; Don't miss these lesions; advanced neuroimaging techniques. In addition, there will be a session entitled: Wish I could read this case again!!

The ENRS is known for a very intimate and social character enhancing scientific and didactic interactions. I guarantee you that the organizing team will strive to deliver a similarly successful, collaborative, and friendly meeting with lots of virtual interaction. The only important change we have made is that we offer a **significantly reduced registration fee**. Please register as soon as possible, and submit as many scientific presentations as you can think of. You will likely never get this volume of high-end scientific interaction at such a discounted price!!!!

Finally, for those of you who were already dreaming of visiting beautiful Burlington will just have to wait a little bit longer. Dr. Doris Lin has agreed to organize the 2022 ENRS meeting in Burlington, Vermont.

Looking forward to connecting with you at the virtual 32nd Annual Meeting of the ENRS.

Thierry A.G.M. Huisman, M.D., PD, EDiNR, EDiPNR, FICIS

Target Audience

The ENRS 32nd 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. The meeting covers imaging of diseases of the pediatric, adult and aging brain, spine, otolaryngology, as well as neurointervention in adults and children. The imaging techniques covered range from routine, commonly used applications, to the most recent, cutting-edge techniques. In addition, important updates on the significance of artificial intelligence, pattern recognition and radiomics will be discussed.

Accreditation

Physicians: This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) 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 22.0 *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:

- Effectively evaluate and derive a differential diagnosis for various diseases in the neck, sinonasal cavity, orbit, and temporal bone including aspects of appropriate reporting for Pre-FESS sinus imaging, and NIRADS in post-operative surveillance of H&N neoplasias
- Understand and utilize/apply artificial intelligence, pattern recognition and radiomics in neuroimaging
- Correlate neurovascular genetics and neuro-architecture with neurovascular anomalies
- Develop an approach for the evaluation of neonatal and pediatric disorders affecting the brain, including neuro-metabolic disorders, pediatric arterial ischemic stroke, pediatric brain tumors and neonatal brain injury
- Differentiate between various neurologic autoimmune diseases and CNS inflammation
- Evaluate the normal and abnormal aging of the brain including Alzheimer's disease and the significance of nuclear neuroradiology approaches
- Advise the upcoming young generation of radiologists why and how to become a neuroradiologist
- Optimally use and apply neuroimaging in the diagnostic work up of patients suspected of an arterial or venous stroke
- Correlate and understand the significance of combining neuroimaging findings of CNS neoplasms with molecular and genetic subtyping in the guidance of treatment options and prediction of outcome
- Unravel the mysteries of CSF circulation disorders and beyond
- Recognize spine, spinal cord and brachial plexus pathologies
- Develop an efficient, highly effective and diagnostic emergency neuroimaging pipeline
- Use advanced neuroimaging techniques including vessel wall imaging, cerebral perfusion, and advanced CT technology
- Learn from cases that we would all like to read a second time

No special educational preparation is required for this CME activity.



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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.

2019-2020 ENRS Executive Committee

PRESIDENT & CHAIR

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Director, Augmented Intelligence & Precision Health
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Professor of Radiology, Pediatrics, Neurosurgery,
Obstetrics and Gynecology
Radiologist-in-Chief and Edward B. Singleton
Chair of Radiology
Texas Children's Hospital and Baylor College
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SECRETARY

Tanya J. Rath, M.D.

Senior Associate Consultant
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Eugene Yu, M.D., FRCPC

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2019-2020 ENRS Program Committee

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Radiologist-in-Chief and Edward B. Singleton Chair
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Toronto
Toronto, Ontario, Canada

ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, RADIOMICS:

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Vice Chair of Biomedical Imaging and
Translational Science
Professor of Radiology
Lenox Hill Hospital and Lenox Hill Greenwich Village
New York, NY

NEUROVASCULAR ANOMALIES, NEUROVASCULAR GENETICS:

Waleed Brinjikji, M.D.

Mayo Clinic, Rochester
Rochester, MN

CEREBRAL NEOPLASMS AND MOLECULAR/ GENETIC SUBTYPING:

Girish M. Fatterpekar, MBBS, DNB, M.D.

Associate Professor Radiology
Section Chief Neuroradiology
NYU Langone Medical Center
New York, NY

AUTOIMMUNE DISEASES AND INFLAMMATION:

Izlem Izbudak, M.D.

Associate Professor of Radiology and Neurology
The Russell H. Morgan Department of Radiology
Division of Neuroradiology
Johns Hopkins Hospital
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THE AGING BRAIN INCLUDING ALZHEIMER'S AND NUCLEAR NEURORADIOLOGY:

Martin G. Pomper, M.D., Ph.D.

Director, Nuclear Medicine and Molecular Imaging
Department of Radiology
Johns Hopkins Hospital
Baltimore, MD

BECOMING A NEURORADIOLOGIST: PERSPECTIVES, EXPERIENCES, AND EXPECTATIONS:

Carlos Zamora, M.D., Ph.D.

Assistant Professor of Radiology
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Division of Neuroradiology
Chapel Hill, NC

STROKE IMAGING: SYSTEM OPERATIONS, RESOURCES AND WORKFLOW:

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Vice Chairman of Research
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Manhasset, NY

Pamela W. Schaefer, M.D.

Associate Professor in Radiology
Harvard Medical School
Vice Chair Post-Graduate Education and Fellowship
Training
Associate Director of Neuroradiology
Clinical Director of MRI
Massachusetts General Hospital
Boston, MA

PEDIATRIC NEURORADIOLOGY:

Manohar Shroff, M.D., FRCPC

Professor of Radiology,
Department of Medical Imaging
University of Toronto
Chief of Radiology, Ontasian Chair - Pediatric
Radiology, Staff Neuroradiologist,
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Clinical Professor, Radiology
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Baltimore, MD

SPINE, SPINAL CORD, AND BRACHIAL PLEXUS:

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EMERGENCY NEUROIMAGING: DON'T MISS THESE LESIONS:

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Professor of Medical Imaging, University of Toronto
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SCIENTIFIC PRESENTATIONS:

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Centre Hospitalier de l'Université de Montréal (CHUM)
Montreal, Quebec, Canada

Mari Hagiwara, M.D.

Associate Professor
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New York University Langone Medical Center
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Associate Professor
University of Vermont Medical Center
Burlington, VT

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Professor of Radiology
Lenox Hill Hospital and Lenox Hill Greenwich Village
New York, NY

Bruno P. Soares, M.D.

Division Chief, Neuroradiology
Associate Professor
University of Vermont Medical Center
Burlington, VT

Program Schedule

Meeting Scheduled for Eastern Standard Time

Thursday, August 27, 2020

- 9:10 – 9:20 AM Welcome
Reza Forghani, M.D., Ph.D. - ENRS President
- 9:20 – 9:30 Introduction
Thierry A.G.M. Huisman, M.D., P.D., EDiNR, EDiPNR, FICIS

ENT/HEAD AND NECK

Moderators: C. Douglas Phillips, M.D., FACR and Eugene Yu, M.D., FRCPC

- 9:30 – 9:55 Approach to Initial Diagnostic Imaging of SCCa: CT or MRI
Laila Alshafai, MBBS, FRCPC (dNR), dABR (dNR)
- 9:55 – 10:15 PET MR and PET CT in H&N Cancer Diagnosis
Katie S. Traylor, D.O.
- 10:15 – 10:40 The "Might be Pathologic" Lymph Node
Hillary R. Kelly, M.D.
- 10:40 – 11:00 Generating an Appropriate Report for Pre-FESS Sinus Imaging
Deborah R. Sbatzkes, M.D.
- 11:00 – 11:30 ENT Infectious Emergency Conditions
Jared M. Steinklein, M.D.
- 11:30 – 12:00 PM Application of NIRADS in Post-Therapy Surveillance of H&N Neoplasia
Sara B. Strauss, M.D.

12:15 – 1:15 Lunch & Learn - Sponsored Lecture ♦ Sponsored by Bracco Diagnostics

ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, RADIOIMICS

Moderators: Christopher G. Filippi, M.D., Matthias W. Wagner, M.D., EDiR

- 1:30 – 1:50 AI from Turing to Facebook: Focus on Bias and Ethics
Christopher G. Filippi, M.D.
- 1:50 – 2:10 A Primer in AI for Neuroradiologists
Yvonne W. Lui, M.D.
- 2:10 – 2:30 Applications of Deep Learning to Neuroimaging
Peter D. Chang, M.D.
- 2:30 – 2:50 Machine Learning in Glioma Genetics and Stroke
Jayashree Kalpathy-Cramer, Ph.D.

2:50 – 3:10 Break - Scientific Poster Review ♦

SAM SESSION I

NEUROVASCULAR ANOMALIES, NEUROVASCULAR GENETICS

Moderator: Waleed Brinjikji, M.D., Dheeraj Gandhi, M.D.

- 3:10 – 3:30 Sporadic Brain AVMs: A Genetic Disease?
Emanuele Orru, M.D.
- 3:30 – 3:50 Spinal Vascular Malformations: Genetic, Anatomic and Therapeutic Considerations
Dheeraj Gandhi, M.D.
- 3:50 – 4:10 Hereditary Hemorrhagic Telangiectasia: Current Concepts
Jesse Klostianec, M.D., Ph.D., FRCPC
- 4:10 – 4:30 Developmental Venous Anomalies
Waleed Brinjikji, M.D.
- 4:30 – 4:40 Presentation of ENRS 2021 Meeting ♦
Tanya J. Rath, M.D.

4:40 End of Session

Friday, August 28, 2020

7:30 – 8:00 AM Breakfast & Learn ♦ Sponsored by LMT Medical-Systems

SAM SESSION II

CEREBRAL NEOPLASMS AND MOLECULAR/GENETIC SUBTYPING

Moderator: Girish M. Fatterpekar, MBBS, DNB, M.D., Bruno P. Soares, M.D.

- 8:00 – 8:20 Radiogenomics in Brain Tumors
Rajan Jain, M.D.
- 8:20 – 8:40 Pediatric Brain Tumors: An Update
Alireza Radmanesh, M.D.
- 8:40 – 9:00 Treatment Related Changes Versus Tumor Recurrence in High Grade Gliomas: Where Do We Stand?
Suyash Mohan, M.D.
- 9:00 – 9:20 Brain Tumor Mimics
Sachin K. Gujar, MBBS, M.D.
- 9:20 – 9:40 Machine Learning in Neuro-Oncology
Javier Villanueva-Meyer, M.D.

9:40 – 10:00 Break - Scientific Poster Review ♦

AUTOIMMUNE DISEASES AND INFLAMMATION

Moderator: Izlem Izbudak, M.D., Tanya J. Rath, M.D.

- 10:00 – 10:20 Clinical and Basic Science Perspectives for Neuroradiologists
Elias Sotirochos, M.D.
- 10:20 – 10:40 Imaging Updates on Neuroimmunological Diseases
Izlem Izbudak, M.D.
- 10:40 – 11:00 Advanced Imaging of Multiple Sclerosis
Susie Y. Huang, M.D., Ph.D.
- 11:00 – 11:15 Roundtable Discussion and Question and Answer
Faculty

11:30 – 12:30 PM Lunch & Learn - Sponsored Lecture ♦ Sponsored by XXX (Available Session)

THE AGING BRAIN INCLUDING ALZHEIMER'S AND NUCLEAR NEURORADIOLOGY

Moderators: Martin G. Pomper, M.D., Ph.D., Ana M. Franceschi, M.D.

- 12:45 – 1:05 PET Imaging of Neuroinflammation
Martin G. Pomper, M.D., Ph.D.
- 1:05 – 1:20 Molecular Imaging of Neurodegenerative Disease
Lilja Solnes, M.D., MBA
- 1:20 – 1:40 Molecular Imaging of Brain Infection
Dima A. Hammoud, M.D.
- 1:40 – 1:55 Novel Imaging Biomarkers in Dementia Therapeutics
Ana M. Franceschi, M.D.

1:55 – 2:15 Break - Scientific Poster Review ♦

BECOMING A NEURORADIOLOGIST: PERSPECTIVES, EXPERIENCES, AND EXPECTATIONS

Moderators: Carlos Zamora, M.D., Ph.D., Claudia F. E. Kirsch, M.D.

- 2:15 – 2:35 How Neuroradiology Practice and Neuroradiology Education have Evolved over the Last 30 Years: Historical Perspective
James C. Anderson, M.D.
- 2:35 – 2:55 My First 5 Years in an Academic Career: Observations
Carlos Zamora, M.D., Ph.D.
- 2:55 – 3:15 Women In Neuroradiology: Perspectives From a Division Chief and ASNR Past President
Laurie A. Loevner, M.D.
- 3:15 – 3:35 How to Build a Research Portfolio in Academic Neuroradiology
Mai-Lan Ho, M.D.
- 3:35 – 3:55 Climbing the Administrative Ladder: Is It Possible for a Young Neuroradiologist?
Melissa A. Davis, M.D., MBA

3:55 End of Session

- 3:55 – 4:35 Current State of Affairs of the ASNR ♦
Joshua A. Hirsch, MD, FACR, FSIR, FSNIS

4:35 – 5:00 ENRS Annual Business Meeting (ENRS Members Only)

Saturday, August 29, 2020

7:30 – 8:00 AM Breakfast & Learn - Sponsored Lecture ♦
Sponsored by Siemens Healthineers

**STROKE IMAGING:
SYSTEM OPERATIONS, RESOURCES AND WORKFLOW**

Moderators: Pina C. Sanelli, M.D., MPH, FACR, Pamela W. Schaefer, M.D.

8:00 – 8:20 Stroke Update: Review AHA Guidelines
Pina C. Sanelli, M.D., MPH, FACR

8:20 – 8:40 Stroke Imaging Operations and Workflow:
Emerging AI Applications
Eyal Lotan, M.D., Ph.D.

IMAGING BASED PATIENT SELECTION FOR TREATMENT DECISIONS

8:40 – 8:55 Imaging and Treatment Paradigms in
Posterior Circulation Strokes
Clifford J. Eskey, M.D., Ph.D.

8:55 – 9:10 Imaging Collaterals and It's Clinical Implications for
Treatment and Outcomes
Scott B. Raymond, M.D., Ph.D.

9:10 – 9:25 Imaging and Treatment Paradigms in
Unwitnessed and Wake-Up Strokes
Ona Wu, Ph.D.

STROKE IMAGING PARADIGMS

9:25 - 9:40 CT/CTA Based Approach: Minimal Imaging
Ajay Malhotra, M.D., MMM

9:40 - 9:55 CT/CTA/CTP Based Approach:
Is CT Perfusion Necessary?
Sean Symons, MPH, M.D., MBA

9:55 - 10:10 MRI Based Approach
Pamela W. Schaefer, M.D.

DIVERSITY IN ACADEMIC NEURORADIOLOGY

10:10 - 11:10 Panel Debate and Discussion:
Diversity in Academic Neuroradiology
Jana Ivanidze, M.D., Ph.D., Melissa A. Davis, M.D., MBA,
Erin S. Schwartz, MD, FACR, John E. Jordan, MD, MPP, FACR,
Paul M. Bunch, M.D.

11:10 – 11:30 Break - Scientific Poster Review ♦

SAM SESSION III

PEDIATRIC NEURORADIOLOGY

Moderators: Manohar M. Shroff, M.D., FRCPC, Aylin Tekes, M.D.

11:30 – 11:50 Pediatric Brain Tumors: WHO 2016 Update
Aashim Bhatia, M.D., M.S.

11:50 – 12:10 PM Pattern Approach to Pediatric Neurometabolic Disorders
Bruno P. Soares, M.D.

12:10 – 12:30 Neurointervention in Children: A Case Based Review
Prakash Muthusami, MBBS, M.D.

12:30 – 12:50 Pediatric Arterial Ischemic Stroke
Manohar M. Shroff, M.D., FRCPC

12:50 – 1:00 Evaluation of Preterm and Term Neonatal Brain Injury:
Head Ultrasound to Brain MRI
Aylin Tekes, M.D.

1:10 – 2:10 Lunch & Learn - Sponsored Lecture ♦
Sponsored by XXX (Available Session)

HYDROCEPHALUS, CSF CIRCULATION DISORDERS AND BEYOND

Moderator: Ari M. Blitz, M.D., Lawrence N. Tanenbaum, M.D., FACR

2:10 – 2:30 High Resolution 3D Skull Base MRI for Detection of
CSF Leakage from the Cranium
Ari M. Blitz, M.D.

2:30 – 2:50 Spontaneous Spinal CSF Leak: Diagnostic Overview
Majid A. Khan, MBBS, M.D.

2:50 – 3:10 Percutaneous Treatment of CSF Leakage
Linda Gray-Leithe M.D.

3:10 – 3:30 Break - Scientific Poster Review ♦

Saturday, August 29, 2020 (continued)

SPINE, SPINAL CORD AND BRACHIAL PLEXUS

Moderator: Adam E. Flanders, M.D., Majid A. Khan, MBBS, M.D.

3:30 – 3:50 Spinal Cord Injury: Update
Jason Talbot, M.D., Ph.D.

3:50 – 4:10 Innovations in Spine Imaging
Lawrence N. Tanenbaum, M.D., FACR

4:10 – 4:30 Practical Spine Procedures to Grow Your Practice
Wende N. Gibbs, M.D., MA

4:30 – 4:50 Cervical Spondylotic Myelopathy
Adam E. Flanders, M.D.

4:50 End of Session

Sunday, August 30, 2020

7:30 – 8:00 AM Breakfast & Learn ♦
Sponsored By XXX (Available Session)

SAM SESSION IV

EMERGENCY NEUROIMAGING: DON'T MISS THESE LESIONS!

Moderator: Michael H. Lev, M.D., FAHA, FACR, Elka Miller, M.D., FRCPC

8:00 – 8:20 Neck and Skull Base Emergencies
Shahmir Kamalian, M.D.

8:20 – 8:40 Pediatric Emergencies: Head
Leah Platenik Palifka, M.D., M.S.

8:40 – 9:00 How to Read a Stroke CT/CTA/CTP
Christopher A. Potter, M.D.

9:00 – 9:20 Non-Stroke "Don't Miss" Neurological Emergencies
John Conklin, M.D., MSc, FRCPC

9:20 – 9:40 EVT/IVT Stroke Transfer & Treatment Decision
Making in the DAWN Era
Clifford J. Eskey, M.D., Ph.D.

9:40 – 10:00 Break - Scientific Poster Review ♦

ADVANCED NEUROIMAGING TECHNIQUES

Moderator: Birgit Ertl-Wagner, M.D., Ona Wu, Ph.D.

10:00 – 10:20 Vessel Wall Imaging of the Craniocervical Vessels -
Does it Help?
Ferdinand K. Hui, M.D.

10:20 – 10:40 Cerebral Perfusion:
How Should We Measure It and Why?
Jana Ivanidze, M.D., Ph.D.

10:40 – 11:10 Advanced Neuroimaging – Where Do We Come From and
Where Are We Heading?
Walter Kucharczyk, M.D., FRCPC

11:10 – 11:30 Advances in CT Technology:
There is Still a lot of oomph in Those Roentgen Rays
Rajiv Gupta, M.D., Ph.D.

11:30 – 12:00 PM Wish I Could Read this Case Again
Thierry A.G.M. Huisman, M.D., P.D., EDiNR, EDiPNR, FICIS,
Diana P. Rodriguez, M.D., Christopher G. Filippi, M.D.,
Bruno P. Soares, M.D., Elka Miller, M.D., FRCPC,
Claudia F. E. Kirsch, M.D.

12:00 – 12:10 Closing Comments

12:10 End of Meeting

**ENRS
Abstract
Submission:
Deadline for Abstract
Submissions
July 24, 2020**

Abstracts will be accepted for oral presentation in 3 categories: (1) Scientific Oral Presentation (2) Excerpta Extraordinaire (brief presentation of interesting, educational case reports) and (3) Scientific Poster Presentation. Submissions are welcome in all major categories in Neuroradiology including disorders of the brain, spine, head and neck, pediatrics, interventional neuroradiology, fetal neuroradiology, and technical abstracts. Deadline to submit abstract is July 24th, those accepted need to prepare to submit final electronic poster by August 7th. **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 and Mari Hagiwara Mari.Hagiwara@nyulangone.org.
[Click here](#) to access the abstract submission form.

Invited Faculty

Laila Alshafai, MBBS, FRCPC (dNR), dABR (dNR)

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James C. Anderson, M.D.

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Aashim Bhatia, M.D., M.S.

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Clifford J. Eskey, M.D., Ph.D.

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Girish M. Fatterpekar, MBBS, DNB, M.D.

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Christopher G. Filippi, M.D.

Lenox Hill Hospital and Lenox Hill Greenwich Village
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