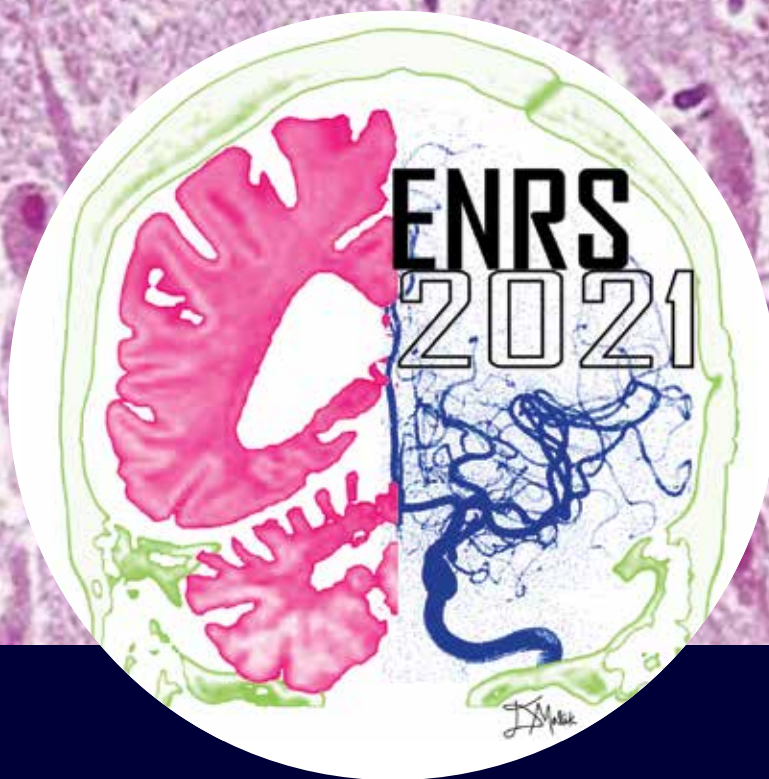




33rd Annual Meeting of

The Eastern Neuroradiological Society

Virtual! Impossible to Miss!

August 19 – 22, 2021 • Scheduled for Eastern Daylight Time

SA-CME Credit Available

27.0 AMA PRA Category 1 Credit(s)TM

Call for Abstracts • Deadline: July 2, 2021

Those accepted need to prepare to submit final electronic poster by August 1st.

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

For more information, visit www.enrs.org



From the Program Chair

It is my pleasure to welcome you to the all virtual 33rd Annual Meeting of the Eastern Neuroradiological Society (ENRS) to be held August 19-22, 2021. Socrates said, "To move the world, we must first move ourselves." I cannot think of a recent time when this saying was more appropriate. The year 2020 dramatically changed the landscape of our lives in response to the COVID-19 pandemic. As we enter 2021, the heroes of our society, including our own membership, have moved the world one step closer to normalcy with improved detection and management of COVID-19 related illness and the development and implementation of COVID-19 vaccines. Yet much uncertainty remains regarding the trajectory of this pandemic. Speaking on behalf of the Executive Committee and taking into consideration the welfare of our membership and global health, we believe a virtual meeting is the best choice for our 2021 annual meeting.

I am certain that this year's 33rd Annual ENRS program will deliver excellent educational and scientific content from world-renowned, experienced neuroradiologists as well as young, talented neuroradiologists bringing a new perspective and energy to our organization. The theme of the 3 ½ day meeting is "Evidenced Based Best Practices, Current Concepts, and Future Directions." The comprehensive program includes core imaging and neurointerventional educational content in adult and pediatric disorders of the brain, spine, and head and neck with key updates on:

- WHO 2021 5th edition CNS tumor classification and the role of advanced imaging techniques in diagnosis and response assessment in CNS neoplasms
- Stroke etiology, collateral assessment, vessel wall imaging and extended window endovascular stroke intervention
- State-of-the-art deep learning and advanced imaging applications for brain and spine imaging
- Neonatal imaging, the pediatric connectome, and pediatric epilepsy imaging
- COVID-19 presentations in the brain and head and neck
- Skull base, temporal bone, cranial nerve, and brachial plexus imaging
- Physiologic and structural imaging of dementia
- Distinguishing CNS neuroinflammatory disorders
- Contemporary reporting in back pain
- Diagnosis and neurointerventional management of CSF flow disorders and CSF flow imaging
- Implementing NI-RADs into your practice
- MR guided focused ultrasound and new frontiers in neurointerventional procedures relevant to diagnostic neuroradiology practice

Tune in for Saturday's renowned keynote speaker Dr. Hugh Curtin who will lecture on "Conductive Hearing Loss – a Practical Approach."

Registrants will have access to quality continuing medical education using a streamlined, virtual interactive platform with the opportunity to meet with friends and colleagues on the screen. On-demand access will be conveniently available for review following the conclusion of the meeting. Encourage your medical students, residents, fellows, and colleagues to submit scientific presentations and be considered for the ENRS Norman E. Leeds Award, the Stephen A. Kieffer Award and the Robert D. Zimmerman Award.

The ENRS is well known for its first-class educational content delivered in a diverse, congenial, and inviting atmosphere that mentors and sponsors new faculty. With the help of our very knowledgeable, innovative Program Committee and Faculty, I believe you will find a similar experience at our virtual meeting this year. The Society remains committed to advancing medical care and medical education during these extraordinary times. So please register as soon as possible and join us online for 3 ½ days of refreshing education, networking, and entertainment August 19-22, 2021!

Sincerely,

Tanya J. Rath, MD

ENRS Vice President/President-Elect and Program Chair

Target Audience

The ENRS 33rd Annual Meeting is targeted to practicing academic and private practice radiologists, residents, fellows, scientists and other health professionals whose practice involves neuroradiology, neurointervention, otolaryngology, neurosurgery, neurology, and imaging science. The program includes a contemporary discussion of the current imaging best practices for the evaluation of adult and pediatric disorders of the brain, spine, and head and neck. Up-to-date guidelines, innovative techniques and image-guided interventions will be reviewed to enhance and grow your diagnostic and interventional neuroradiology practice. Current and future applications of artificial intelligence and deep learning will be discussed by leading scientists and physicians. Key teaching points will be emphasized by integrated self-assessment modules.

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 enduring material for a maximum of 27.0 *AMA PRA Category 1 Credit(s)*TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

SA-CME: Credits awarded for some sessions of this enduring material are designated "SA-CME" by the American Board of Radiology (ABR) and qualify toward fulfilling requirements for Maintenance of Certification (MOC) Part II: Lifelong Learning and Self-assessment.

*AMA PRA Category 1 Credit(s)*TM

for these programs may be claimed until November 20, 2021.

Educational Objectives

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

- Describe classification updates and clinically relevant advanced imaging applications in the assessment of adult brain tumors as well as recognize CNS treatment induced effects and tumor mimics.
- Describe characteristic imaging features of toxic encephalopathies, inflammatory demyelinating diseases and central nervous system parasitic infections.
- Discuss current structural and functional imaging techniques in the evaluation of dementia and adult epilepsy and describe the utility of susceptibility weighted imaging in central nervous system disorders.
- Discuss the clinical and imaging presentations of COVID-19 related stroke and head and neck pathology.
- Characterize the variable causes of adult stroke using conventional and advanced imaging techniques and effectively utilize collateral blood flow assessment and vessel wall imaging.
- Evaluate and characterize infectious, inflammatory, degenerative, traumatic, vascular and malignant disorders of the spine using conventional and advanced imaging applications while applying clinically relevant, contemporary reporting.
- Characterize the anatomy and imaging features of disorders affecting the brachial plexus.
- Discuss the imaging best practices for evaluation of CSF hypotension and describe current CSF flow imaging applications.
- Discuss optimal techniques and approaches to characterize disorders of the larynx, temporal bone, central skull base, cranial nerves, orbit, lymph nodes, sinonasal cavity, salivary glands and parathyroid glands.
- Explain the up-to-date classification of head and neck vascular anomalies and discuss the optimal imaging approach to assessment of tinnitus.
- Apply current concepts in staging of head and neck cancer and NI-RADS post-treatment surveillance.
- Describe current recommendations for management of intravascular contrast reactions and updates in malpractice as it pertains to neuroradiology.
- Discuss conventional and advanced imaging methods to diagnose developmental, neoplastic, inflammatory, infectious and traumatic disorders of the brain, spine and head and neck in the fetus and children.
- Review the principles and current applications of artificial intelligence and deep learning in the evaluation of central nervous system disorders.
- Describe state-of-the-art technologies and neurointerventional procedures for image guided treatment of central nervous system disorders.

No special educational preparation is required for this CME activity.



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**Thierry A.G.M. Huisman, M.D., P.D.,
EDiNR, EDiPNR, FICIS**

*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
of Medicine
Houston, TX*

VICE-PRESIDENT/PRESIDENT-ELECT

Tanya J. Rath, M.D.

*Neuroradiology Division
Department of Radiology
Senior Associate Consultant
Mayo Clinic
Associate Professor of Radiology
Mayo Clinic College of Medicine
Phoenix, AZ*

SECRETARY

Doris D.M. Lin, M.D., Ph.D.

*Associate Professor of Radiology and
Radiological Science
Johns Hopkins Hospital
Baltimore, MD*

TREASURER

Mari Hagiwara, M.D.

*Associate Professor Radiology
NYU Langone Medical Center
New York, NY*

1ST PAST-PRESIDENT

Reza Forghani, M.D., Ph.D., FRCPC

*Associate Professor, Department of Radiology
Director, Augmented Intelligence & Precision Health
Laboratory (AIPHL)
McGill University Health Centre &
Research Institute
Montreal, Quebec, Canada*

2ND PAST-PRESIDENT

Claudia F. E. Kirsch, M.D.

*Division Chief of Neuroimaging
Professor of Neuroradiology and Otolaryngology
Department of Radiology Northwell Health
Zucker Hofstra School of Medicine at Northwell
North Shore University Hospital
Manhasset, NY*

ENRS Abstract Submission: Deadline for Abstract Submissions July 2, 2021

Abstracts being accepted for presentation are in 2 categories: (1) Scientific 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, fetal neuroradiology and technical abstracts.

The deadline for abstract submissions is midnight, EDT on July 2nd, 2021. The presenting author of the accepted abstracts is expected to register for the meeting by August 1, 2021 and pay the meeting registration fee.

The presenting author is responsible for all expenses associated with the submission and presentation. Interested candidates should submit abstract(s) electronically to the Scientific Exhibits Committee at enrs.scientific@gmail.com (Word or PDF format) and fill the following abstract submission form: <https://forms.gle/JpF3Bs3FvZr8csWE8>

2020-2021 ENRS Program Committee

PROGRAM CHAIR:

Tanya J. Rath, M.D.

*Neuroradiology Division
Department of Radiology
Senior Associate Consultant
Mayo Clinic
Associate Professor of Radiology
Mayo Clinic College of Medicine
Phoenix, AZ*

PEDIATRICS:

Aylin Tekes-Brady, M.D.

*Associate Professor of Radiology and
Radiological Sciences, JHH
Director, Division of Pediatric Radiology and
Pediatric Neuroradiology
Johns Hopkins Hospital
Baltimore, MD*

Paul Caruso, M.D.

*Assistant Professor in Radiology
Harvard Medical School
Director of Pediatric Neuroimaging
Massachusetts General Hospital for Children
Assistant in Radiology
Massachusetts Eye and Ear Infirmary
Boston, MA*

BRAIN:

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

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

Carlos Torres M.D., FRCPC

*Professor of Radiology
University of Ottawa
Neuroradiologist and CME Director
Department of Medical Imaging
The Ottawa Hospital
Clinician Investigator
Ottawa Hospital Research Institute OHRI and Ottawa
Brain and Mind Institute
Ottawa, Ontario
Canada*

STROKE AND VASCULAR DISORDERS:

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

*Professor of Radiology
Vice Chairman of Research
Department of Radiology
Northwell Health
Manhasset, NY*

Pamela W. Schaefer, MD, FACR

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

HEAD AND NECK:

Claudia F.E. Kirsch, M.D.

*Division Chief of Neuroimaging
Professor of Neuroradiology and Otolaryngology
Department of Radiology Northwell Health
Zucker Hofstra School of Medicine at Northwell
North Shore University Hospital
Manhasset, NY*

Amy Fan-Yee Juliano, M.D.

*Director of Research and Academic Affairs
Program Director, Head and Neck Radiology Fellowship
Department of Radiology
Massachusetts Eye and Ear
Boston, MA
Assistant Professor of Radiology
Harvard Medical School
Boston, MA*

SCIENTIFIC EXHIBITS:

Laurent Letourneau-Guillon, M.D.

*Clinical Assistant Professor
Centre hospitalier de l'Université de Montréal
Montréal, Quebec, Canada*

Mari Hagiwara, M.D.

*Associate Professor Radiology
NYU Langone Medical Center
New York, NY*

Doris D.M. Lin, M.D., Ph.D.

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

Mai-Lan Ho, M.D.

*Associate Professor of Radiology
Director of Research, Department of Radiology
Director, Advanced Neuroimaging Core
Faculty Lead, Imaging Genomics Research Affinity Group
Secretary, Association for Staff and Faculty Women
Chair, Asian Pacific American Network
The Ohio State University
Nationwide Children's Hospital
Columbus, OH*

NEUROINTERVENTIONAL:

Dheeraj Gandhi, M.D.

*Professor and Director,
Interventional Neuroradiology
Professor of Radiology, Neurology and Neurosurgery
Clinical director, CMIT center,
University of Maryland School of Medicine
Director of Neuroimaging, BIOS Center
Johns Hopkins School of Medicine
Baltimore, MD*

ARTIFICIAL INTELLIGENCE, ADVANCED IMAGING APPLICATIONS AND POLICY:

Reza Forghani, M.D., Ph.D., FRCPC

*Associate Professor, Department of Radiology
Director, Augmented Intelligence & Precision Health
Laboratory (AIPHL)
McGill University Health Centre & Research Institute
Montreal, Quebec, Canada*

Rajiv Gupta, M.D., Ph.D.

*Associate Radiologist
Massachusetts General Hospital
Associate Professor
Harvard Medical School
Boston, MA*

SPINE:

Amish Doshi, M.D.

*Associate Professor of Radiology and Neurosurgery
Chief, Division of Neuroradiology
Program Director, Neuroradiology
Associate Program Director, Radiology Residency
Icahn School of Medicine at Mount Sinai
New York, NY*

Vikas Agarwal, M.D.

*Associate Chief of Neuroradiology
Associate Professor of Radiology
University of Pittsburgh Medical Center
Pittsburgh, PA*

SOCIAL MEDIA CHAIR

Suyash Mohan, M.D.

*Associate Professor of Radiology and Neurosurgery
Director, Neuroradiology Clinical Research Division
Department of Radiology
Perelman School of Medicine at the University of
Pennsylvania
Philadelphia, PA*

Program Schedule

Meeting Scheduled for Eastern Daylight Time

Thursday, August 19, 2021

9:00 – 9:10 Welcome -
Thierry A.G.M. Huisman, M.D., P.D., EDiNR, EDiPNR, FICIS

9:10 – 9:20 Introduction
Tanya J. Rath, M.D.

ADULT BRAIN I: NEOPLASM

Moderators: Anna Derman, M.D. and Pamela Nguyen, D.O.

SA-CME SESSION - Adult Brain Neoplasm

9:20 – 9:40 Roadmap to WHO 2021 5th Edition Classification of CNS Tumors in Adults
Rajan Jain, M.D.

9:40 – 10:00 Evidence-Based Best Acquisition Protocols of DSC-MRI with Application to Treatment Response in High-Grade Gliomas
Jerrold L. Boxerman, M.D., Ph.D., FACR

10:00 – 10:20 fMRI and DTI in Pre-Surgical Evaluation of Brain Tumors: Challenges and Tips
Behroze Adi Vachha, M.D., Ph.D.

10:20 – 10:40 Newer Neuro-oncologic Imaging Techniques: Potential and Limitations
Suyash Mohan, M.D.

10:40 – 11:00 Treatment-Induced CNS Toxicity
Sachin K. Gujar, MBBS, M.D.

11:00 – 11:20 Algorithmic Approach to Posterior Fossa Tumors
Nader Z. R. Zakhari, M.D.

11:20 – 11:40 Is this a Tumor or Not?: Case-Based Presentation
Evan G. Stein, M.D., Ph.D.

11:40 – 12:00 PM Scientific Papers I ♦

12:00 – 1:00 Lunch & Learn How-To-Session ♦
Sponsored by Bracco Diagnostics, Inc.

PEDIATRIC I

Moderators: Paul A. Caruso, M.D. and Edwin Gulko, M.D.

1:00 – 1:20 Neonatal Neuroimaging: Current Best Practices and Future Directions
Aylin Tekes-Brady, M.D.

1:20 – 1:40 Abusive Head Trauma: Evidenced Based Neuroimaging Criteria and Differential Diagnosis
Deborah M. Zarnow, M.D.

1:40 – 2:00 Pediatric Onset Sensorineural Hearing Loss and Syndromic Associations
Caroline D. Robson, MBChB

2:00 – 2:20 How to Image the Pediatric Orbit: Infection, Trauma, Tumor and Beyond
Srikala Narayanan, M.D.

2:20 – 2:35 Connectome in the Pediatric Brain: Present and Future
Elysa Widjaja, M.D., MPH, Ph.D.

2:35 – 2:50 Evidence Based Best Practices for Seizure Imaging , Current Practice and Future Directions including 7T, DTI and Connectome
Mai-Lan Ho, M.D.

2:50 – 3:05 Break - Visit Technical Exhibits

Thursday, August 19, 2021 (continued)

HEAD & NECK IMAGING I

Moderators: Amy Fan-Yee Juliano, M.D. and Katie S. Traylor, D.O.

3:05 – 3:20 Catch These Sound Waves - US Head and Neck Applications
Mary Elizabeth Cunnane, M.D.

3:20 – 3:35 Going Viral - COVID Update in the Head and Neck
Claudia F.E. Kirsch, M.D.

3:35 – 3:50 A Firm Bony Foundation - Skull Base Anatomy and Variants
Vikas Jain, M.D.

3:50 – 4:05 Let's Get Wired - Cranial Nerve Imaging and Pathology
Ari M. Blitz, M.D.

4:05 – 4:20 Can You Hear Me Now? Pre-operative Imaging of Cochlear Implantation
Gul Moonis, MBBS

4:20 – 4:40 WNRS Lecture: Avoiding the Wild West of Mistakes and Pitfalls in the Head and Neck
Ashok Srinivasan, M.D., WNRS President

4:40 – 4:55 Unique Cases - Head and Neck Review with the Love Train
Laurie A. Loevner, M.D.

4:55 End of Session

4:55 – 6:00 Scientific Papers II ♦

Friday, August 20, 2021

7:00 – 7:30 AM Visit Technical Exhibits

7:30 – 8:00 Breakfast & Learn How-To-Session ♦
Sponsored by TBD

STROKE & VASCULAR DISORDERS I

Moderators: Pina C. Sanelli, M.D., MPH, FACR and Avraham B. Zlochower, M.D.

SA-CME SESSION - Stroke

8:00 – 8:20 Infectious and Inflammatory Causes of Stroke
Pamela W. Schaefer, M.D.

8:20 – 8:40 Familial and Genetic Causes of Stroke
Daniel J. Boulter, M.D.

8:40 – 9:00 Venous Stroke Causes and Patterns
Scott B. Raymond, M.D., Ph.D.

9:00 – 9:20 Vascular Causes of Dementia
Jana Ivanidze, M.D., Ph.D.

9:20 – 9:40 COVID-19 Stroke Presentation and Outcomes
Pina C. Sanelli, M.D., MPH, FACR

9:40 – 10:00 Neuroimaging Findings in COVID-19 Related Stroke
Byung (Jason) Yoon, M.D., Ph.D.

10:00 – 10:15 Break - Visit Technical Exhibits

Friday, August 20, 2021 (continued)

SPINE I	
<i>Moderators: Adam E. Flanders, M.D. and Laila Alsbafai, M.B.B.S.</i>	
10:15 – 10:35	AI and Spine Imaging <i>Lawrence N. Tanenbaum, M.D., FACR</i>
10:35 – 10:55	Reporting in Back Pain <i>Amish H. Doshi, M.D.</i>
10:55 – 11:15	Reporting in Post-Op Spine Imaging <i>Vikas Agarwal, M.D.</i>
11:15 – 11:35	It's Not A Tumor: Benign Spinal Lesions <i>Harprit S. Bedi, M.D.</i>
11:35 – 11:55	It is a Tumor: Malignant Spinal Lesions <i>Amit Aggarwal, M.D.</i>
11:55 – 12:15 PM	Practical Applications of CSF Flow Imaging <i>Sara B. Strauss, M.D.</i>
12:15 – 1:15	Lunch & Learn How-To-Session ♦ Sponsored by Biogen

PEDIATRIC II	
<i>Moderators: Doris D.M. Lin, M.D., Ph.D. and Neel Madan, M.D.</i>	
SA-CME SESSION - Pediatric Neuroradiology	
1:15 – 1:35	AI in Pediatric Neuroradiology: Evidence Based Current Applications in Brain and Future Directions <i>Thierry A.G.M. Huisman, M.D., P.D., EDiNR, EDiPNR, FICIS</i>
1:35 – 1:55	Metabolic Disease Neonatal Onset: Best Diagnostic Strategies <i>William T. O'Brien, Sr., M.D., FAOCR</i>
1:55 – 2:15	Last Decade in Neuroinflammatory Disorders: Acute Flaccid Myelitis to COVID and More <i>Karuna V. Shekdar, M.D.</i>
2:15 – 2:35	RAPNO Recommendations for Pediatric Spine Tumor Imaging <i>Aashim Bhatia, M.D., M.S.</i>
2:35 – 2:50	Fetal Imaging Evidenced Based: 3T vs 1.5T and Future Directions <i>P. Ellen Grant, M.D., MSc.</i>
2:50 – 3:05	"Deep Learning" with Rapid Fire Cases <i>Paul A. Caruso, M.D. and Aylin Tekes-Brady, M.D.</i>
3:05 – 3:20	Break and Visit Technical Exhibits

ADVANCED IMAGING & ARTIFICIAL INTELLIGENCE: CURRENT TECHNIQUES TO ENHANCE YOUR PRACTICE & EMERGING TECHNOLOGIES	
<i>Moderator: Rajiv Gupta, M.D., Ph.D. and Sam Payabvash, M.D.</i>	
3:20 – 3:40	Deep Learning: Promise, Hype and Deep Concerns <i>Rajiv Gupta, M.D., Ph.D.</i>
3:40 – 4:00	Quantitative Feature Extraction and Prediction Modeling Using AI <i>Reza Forghani, M.D., Ph.D., FRCP</i>
4:00 – 4:15	Distributed Learning and Applications <i>Jayashree Kalpathy-Cramer, Ph.D.</i>
4:15 – 4:30	Automap: Can I Finally Forget About the K-Space? <i>Matthew Rosen, Ph.D.</i>
4:30 – 4:50	Deep Spine <i>Stuart Pomerantz, M.D.</i>

Friday, August 20, 2021(continued)

4:50 – 5:10	ED Implementation of an ICH Deep Learning Algorithm <i>R. Gilberto Gonzalez, M.D., Ph.D.</i>
5:10 – 5:30	ASNR Presidential Address & Lecture <i>Tina Young Poussaint, M.D., FACR, 2021-2022 President, ASNR</i>
5:30	End of Session
5:30 – 5:50	Scientific Paper Session III ♦
5:50 – 6:10	ENRS Annual Business Meeting ♦ (ENRS Members Only)

Saturday, August 21, 2021

7:00 – 7:30 AM	Visit Technical Exhibits
7:30 – 8:00	Breakfast & Learn How-To-Session ♦ Sponsored by TBD

ADULT BRAIN II: NON-TUMOR	
<i>Moderators: Lev Bangiyev, DABR & Elizabeth K. Weidman, M.D.</i>	
8:00 – 8:20	Your Brain on Drugs: Neuroimaging of Toxic Encephalopathies <i>Laurent Letourneau-Guillon, MD</i>
8:20 – 8:40	MOGAD vs. NMOs: MRI Characteristics and Update <i>Maria J. Borja Angulo, M.D.</i>
8:40 – 9:00	What Is That Thing in Your Brain? Imaging of Parasitic Infections of the CNS <i>Carlos H. Torres, M.D., FRCPC</i>
9:00 – 9:20	Imaging Adult Seizures <i>Joseph M. Mettenberg, M.D., Ph.D.</i>
9:20 – 9:40	Neuroimaging Update in Dementia: Structural and Physiologic Evaluation <i>Timothy M. Shepherd, M.D., Ph.D.</i>
9:40 – 10:00	SWI: Not Every Black Dot is a Hemorrhage <i>Javier M. Romero, M.D., FAHA</i>
10:00 – 10:15	Break - Visit Technical Exhibits

STROKE & VASCULAR DISORDERS II	
<i>Moderators: Pamela W. Schaefer, M.D. and Katharina Eikermann-Haerter, M.D.</i>	
10:15 – 10:35	Perspectives on the Assessment of Collateral Blood Flow in Steno-occlusive Disease <i>David J. Mikulis, BSc, M.D., FRCP</i>
10:35 – 10:55	Intracranial Vessel Wall MR Imaging <i>Jae W. Song, M.D., M.S.</i>
10:55 – 11:15	Advanced Imaging in Hypoxic-Ischemic Injury <i>Ona Wu, Ph.D.</i>
11:15 – 11:35	Advanced Imaging in Hemorrhagic Stroke <i>Ajay Malhotra, M.D., MMM</i>
11:35 - 11:55	WNRS Lecture: Magnetoencephalography: Basic Principles and Clinical Applications <i>Roland R. Lee, M.D., FACR, WNRS Past President</i>
11:55 – 12:00 PM	Presentation of ENRS 2022 Meeting <i>Doris D.M. Lin, M.D., Ph.D.</i>
12:00 – 1:00	Lunch & Learn How-To-Session ♦ Sponsored by Guerbet, LLC.

Saturday, August 21, 2021 (continued)

SPINE II <i>Moderators: A. Orlando Ortiz, MBA, FACR and Puneet S. Pawha, M.D.</i>	
SA-CME SESSION - Spine	
1:00 – 1:20	Current Concepts in Imaging of Intracranial Hypotension and CSF Leaks <i>Majid A. Khan, MBBS, M.D.</i>
1:20 – 1:40	Imaging Approach to Myelopathy and Myelitis <i>Anousheh Sayah, M.D.</i>
1:40 – 2:00	Infection vs Degeneration in the Spine: Tools and Tips <i>Alexander H. Levitt, M.D.</i>
2:00 – 2:20	Non-invasive Vascular Imaging of the Spine <i>Michele H. Johnson, M.D., FACR, FASER</i>
2:20 – 2:35	Imaging of Brachial Plexus: A Case Based Approach <i>Alvand Hassankhani, M.D.</i>
2:35 – 2:50	Mortality and Morbidity of Compression Fractures <i>Joshua A. Hirsch, MD, FACR, FSIR, FSNIS</i>
2:50 – 3:05	Break and Visit Technical Exhibits
HEAD & NECK IMAGING II <i>Moderators: Xuan V. Nguyen, M.D., Ph.D. and Pritesh J. Mehta, M.D.</i>	
SA-CME SESSION - Head & Neck	
3:05 – 3:25	Keep Your Eye on This - Vision Loss and Novel Surgical Approaches <i>Katherine L. Reinshagen, M.D.</i>
3:25 – 3:45	Does This Talk Ring a Bell - Imaging of Tinnitus <i>Gopi K. Nayak, M.D.</i>
3:45 – 4:05	Is There a 4th Pair? Salivary Gland Imaging Update <i>Mari Hagiwara, M.D.</i>
4:05 – 4:25	Things That I have Learned Interpreting Sinus Images <i>Peter M. Som, M.D., FACR, F.R.S.M.</i>
4:25 – 4:40	Word Up! Correct Classification and Nomenclature of Vascular Anomalies <i>Deborah R. Shatzkes, M.D.</i>
4:40 – 4:55	Malpractice Update <i>C. Douglas Phillips, M.D., FACR</i>
KEYNOTE LECTURE	
4:55 – 5:00	Introduction of Keynote Lecturer <i>Tanya J. Rath, M.D.</i>
5:00 – 5:45	Conductive Hearing Loss - A Practical Approach <i>Hugh D. Curtin, M.D., FACR</i>
5:45 – 6:00	Announcement of Awards <i>Laurent Letourneau-Guillon, M.D.</i>
6:00	End of Session

Sunday, August 22, 2021

7:00 – 7:30 AM Visit Technical Exhibits

7:30 – 8:00 Breakfast & Learn How-To-Session ♦
Sponsored by TBD

EMERGENCY IMAGING AND HEAD & NECK III <i>Moderators: Keerthi Arani, M.D. and Rohini Nadgir, M.D.</i>	
SA-CME SESSION - Emergency Neuroradiology	
8:00 – 8:20	Imaging of Spinal Emergencies: Acute or Not? <i>William A. Mehan, M.D., MBA</i>
8:20 – 8:40	Head and Neck 911 - Traumatic and Non-Traumatic Emergencies <i>Amit Mahajan, M.D.</i>
8:40 – 9:00	Traumatic and Non-Traumatic Emergencies of Pediatric Spine <i>Melike Guryildirim, M.D.</i>
9:00 – 9:15	Code Blue: Managing Contrast Reactions and Adverse Events in Radiology <i>Marion A. Hughes, M.D.</i>
9:15 – 9:30	Got too much milk? Nope it's the Parathyroid <i>Hillary R. Kelly, M.D.</i>
9:30 – 9:45	Let's talk about it - Optimizing Laryngeal Imaging <i>Hilda E. Stambuk, M.D.</i>
9:45 – 10:00	Center Stage - Keeping Current with Head and Neck Cancer Staging <i>Eugene Yu, M.D., FRCPC</i>
10:00 – 10:15	Break and Visit Technical Exhibits
10:15 – 10:55	NIRADS Workshop <i>Amy Fan-Yee Juliano, M.D. and Karen A. Buch, M.D.</i>
NEW FRONTIERS AND DISRUPTIVE TECHNOLOGIES IN NEURO-INTERVENTION <i>Moderators: Dipanka Sarma, M.D. and Yafell Serulle, M.D., Ph.D.</i>	
10:55 – 11:15	Embolization of Chronic Subdural Hematoma: Ready for Primetime? <i>Timothy R. Miller, M.D.</i>
11:15 – 11:35	Emerging Capabilities and Technologies in the Neuro-Endovascular Procedure Suite <i>Vitor Mendes Pereira, MSc, M.D.</i>
11:35 – 11:55	Using Sound for Cure: MR Guided FUS <i>Dheeraj Gandhi, M.D.</i>
11:55 – 12:10 PM	Venous Sinus Stenting for Pseudotumor Cerebri: What Does the Current Evidence Tell Us? <i>Reade DeLeacy, M.D., MBBS (Hons) FRANZCR</i>
12:10 – 12:25	Endovascular Management of Acute Stroke: Extending the Boundaries <i>Manuel Fortes, M.D.</i>
12:25 – 12:30	Closing Remarks <i>Tanya J. Rath, M.D.</i>
12:30	End of Meeting

Faculty & topics subject to change.

♦ Session not accredited for AMA PRA Category 1 Credit(s)[™]

Invited Faculty

Vikas Agarwal, M.D.

University of Pittsburgh Medical Center
Pittsburgh, PA

Amit Aggarwal, M.D.

Icahn School of Medicine at Mount Sinai
New York, NY

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

Mount Sinai Hospital & University Health Network
Toronto, Ontario, Canada

Keerthi Arani, M.D.

University of Pittsburgh Medical Center
Pittsburgh, PA

Lev Bangiyev, D.O., DABR

Stony Brook University Hospital
Stony Brook, NY

Harprit S. Bedi, M.D.

Boston University School of Medicine
Boston, MA

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

Children's Hospital of Pittsburgh of UPMC
Pittsburgh, PA

Ari M. Blitz, M.D.

Case Western Reserve University School of Medicine
Cleveland, OH

Maria J. Borja Angulo, M.D.

NYU School of Medicine
New York, NY

Daniel J. Boulter, M.D.

The Ohio State University Wexner Medical Center
Columbus, OH

Jerrold L. Boxerman, M.D., Ph.D., FACR

Alpert Medical School of Brown University
Rhode Island Hospital
Providence, RI

Karen A. Buch, M.D.

Harvard Medical School
Massachusetts General Hospital
Boston, MA

Paul A. Caruso, M.D.

Harvard Medical School
Massachusetts General Hospital for Children
Boston, MA

Mary Elizabeth Cunnane, M.D.

Harvard Medical School
Boston, MA

Hugh D. Curtin, M.D., FACR

Harvard Medical School
Boston, MA

Reade DeLeacy, M.D., MBBS (Hons) FRANZCR

Mount Sinai Hospital
New York, NY

Anna Derman, M.D.

NYU Langone Medical Center
New York, NY

Amish H. Doshi, M.D.

Icahn School of Medicine at Mount Sinai
New York, NY

Katharina Eikermann-Haerter, M.D.

Massachusetts General Hospital
Boston, MA

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

NYU Langone Medical Center
New York, NY

Adam E. Flanders, M.D.

Thomas Jefferson University Hospital
Philadelphia, PA

Reza Forghani, M.D., Ph.D., FRCPC

McGill University Health Centre & Research Institute
Montreal, Quebec, Canada

Manuel Fortes, M.D.

Fairfax Radiological Consultants, PC
Fairfax, VA

Dheeraj Gandhi, M.D.

University of Maryland School of Medicine
John Hopkins School of Medicine
Baltimore, MD

R. Gilberto Gonzalez, M.D., Ph.D.

Harvard Medical School
Massachusetts General Hospital
Boston, MA

P. Ellen Grant, M.D., MSc.

Boston Children's Hospital
Harvard Medical School
Boston, MA

Sachin K. Gujar, MBBS, M.D.

Johns Hopkins University School of Medicine
Baltimore, MD

Edwin Gulko, M.D.

Westchester Medical Center
New York Medical College School of Medicine
Valhalla, NY

Rajiv Gupta, M.D., Ph.D.

Harvard Medical School
Massachusetts General Hospital
Boston, MA

Melike Guryildirim, M.D.

Johns Hopkins University School of Medicine
The Johns Hopkins Hospital
Baltimore, MD

Mari Hagiwara, M.D.

New York University Langone Medical Center
New York, NY

Alvand Hassankhani, M.D.

Perelman School of Medicine at the University of Pennsylvania
Philadelphia, PA

Joshua A. Hirsch M.D., FACR, FSIR, FSNIS

Massachusetts General Hospital
Harvard Medical School
Boston, MA

Mai-Lan Ho, M.D.

The Ohio State University
Nationwide Children's Hospital
Columbus, OH

Marion A. Hughes, M.D.

University of Pittsburgh Medical Center
Pittsburgh, PA

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

Texas Children's Hospital and Baylor College of Medicine
Houston, TX

Jana Ivanidze, M.D. Ph.D.

Molecular Imaging Innovations Institute
New York, NY

Rajan Jain, M.D.

NYU School of Medicine
New York, NY

Vikas Jain, MBBS

Case Western Reserve University
Cleveland, OH

Michele H. Johnson, M.D., FACR, FASER

Yale University School of Medicine
New Haven, CT

Amy Fan-Yee Juliano, M.D.

Harvard Medical School
Boston, MA

Jayashree Kalpathy-Cramer, Ph.D.

Harvard Medical School
Massachusetts General Hospital
Boston, MA

Hillary R. Kelly, M.D.

Harvard Medical School
Massachusetts General Hospital
Boston, MA

Majid A. Khan, MBBS, M.D.

Johns Hopkins University School of Medicine
Baltimore, MA

Claudia F.E. Kirsch, M.D.

Zucker Hofstra School of Medicine at Northwell
North Shore University Hospital
Manhasset, NY

Roland R. Lee, MD, FACR

UCSD and VA San Diego
San Diego, CA

Laurent Letourneau-Guillon, M.D.

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

Alexander H. Levitt, M.D.

Jacobi Medical Center
Bronx, NY

Doris D.M. Lin, M.D., Ph.D.

Johns Hopkins University School of Medicine
The Johns Hopkins Hospital
Baltimore, MD

Laurie A. Loevner, M.D.

University of Pennsylvania Health System
Philadelphia, PA

Neel Madan, M.D.

Tufts Children's Hospital
Boston, MA

Amit Mahajan, M.D.

Yale University
New Haven, CT

Ajay Malhotra, M.D., MMM

Yale University
New Haven, CT

William A. Mehan, Jr., M.D., MBA

Harvard Medical School
The Massachusetts General Hospital
Boston, MA

Pritesh J. Mehta, M.D.

Beth Israel Deaconess Medical Center
Boston, MA

Vitor Mendes Pereira, MSc, M.D.

University of Toronto
Toronto, Ontario, Canada

Invited Faculty

Joseph M. Mettenburg, M.D., Ph.D.

*University of Pittsburgh School of Medicine
University of Pittsburgh Medical Center
Pittsburgh, PA*

David J. Mikulis, BSc, M.D., FRCR

*The University of Toronto
The University Health Network
The Toronto Western Hospital
Toronto, Ontario, Canada*

Timothy R. Miller, M.D.

*University of Maryland School of Medicine
Baltimore, MD*

Suyash Mohan, M.D.

*Perelman School of Medicine at the University of Pennsylvania
Philadelphia, PA*

Gul Moonis, MBBS

*Columbia University Medical Center
New York, NY*

Rohini Nadgir, M.D.

*The Johns Hopkins Hospital
Baltimore, MD*

Srikala Narayanan, M.D.

*Children's Hospital of Pittsburgh of UPMC
Pittsburgh, PA*

Gopi K. Nayak, M.D.

*NYU Langone Medical Center
New York, NY*

Pamela Nguyen, D.O.

*Columbia University Medical Center
New York, NY*

Xuan V. Nguyen, M.D., Ph.D.

*The Ohio State University Wexner Medical Center
Columbus, OH*

William T. O'Brien, Sr., D.O., FAOCR

*Cincinnati Children's Hospital Medical Center
University of Cincinnati College of Medicine
Cincinnati, OH*

A. Orlando Ortiz, M.D., MBA, FACR

*Jacobi Medical Center
Albert Einstein College of Medicine
Bronx, NY*

Puneet S. Pawha, M.D.

*Icahn School of Medicine at Mount Sinai
New York, NY*

Sam Payabvash, M.D.

*Yale School of Medicine
New Haven, CT*

C. Douglas Phillips, M.D., FACR

*Weill Cornell Medical College
NewYork-Presbyterian Hospital
New York, NY*

Stuart Pomerantz, M.D.

*Harvard Medical School
Massachusetts General Hospital
Boston, MA*

Tanya J. Rath, M.D.

*Mayo Clinic
Mayo Clinic College of Medicine
Phoenix, AZ*

Scott B. Raymond, M.D., Ph.D.

*University of Vermont Medical Center
Burlington, VT*

Katherine L. Reinshagen, M.D.

*Harvard Medical School
Boston, MA*

Caroline D. Robson, MBChB

*Boston Children's Hospital
Boston, MA*

Javier M. Romero, M.D., FAHA

*Massachusetts General Hospital
Harvard Medical School
Boston, MA*

Matthew Rosen, Ph.D.

*Harvard Medical School
Massachusetts General Hospital
Boston, MA*

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

*Northwell Health
Manhasset, NY*

Dipanka Sarma, M.D.

*University of Toronto
Toronto, Ontario, Canada*

Anousheh Sayah, M.D.

*MedStar Georgetown University Hospital
Washington, D.C*

Pamela W. Schaefer, M.D.

*Harvard Medical School
Massachusetts General Hospital
Boston, MA*

Yafell Serulle, M.D., Ph.D.

*Zucker Hofstra School of Medicine at Northwell
Manhasset, NY*

Deborah R. Shatzkes, M.D.

*Zucker School of Medicine at Hofstra/Northwell
Lenox Hill Hospital
Northwell Health
New York, NY*

Karuna V. Shekdar, M.D.

*Raymond and Ruth Perelman School of Medicine,
University of Pennsylvania
The Children's Hospital of Philadelphia
Philadelphia, PA*

Timothy M. Shepherd, M.D., Ph.D.

*New York University
New York, NY*

Peter M. Som, M.D., FACR, F.R.S.M.

*Icahn School of Medicine at Mount Sinai
New York, NY*

Jae W. Song, M.D., MS

*University of Pennsylvania
Perelman School of Medicine
Philadelphia, PA*

Ashok Srinivasan, M.D.

*University of Michigan
Ann Arbor, MI*

Hilda E. Stambuk, M.D.

*Memorial Sloan-Kettering Cancer Center
Weill Cornell Medical College
New York, NY*

Evan G. Stein, M.D., Ph.D.

*Maimonides Medical Center
Brooklyn, NY*

Sara B. Strauss, M.D.

*Weill Cornell Medical College
NewYork-Presbyterian Hospital
New York, NY*

Lawrence N. Tanenbaum, M.D., FACR

*RadNet, Inc.
New York, NY*

Aylin Tekes-Brady, M.D.

*Johns Hopkins Hospital
Baltimore, MD*

Carlos H. Torres, M.D., FRCPC

*University of Ottawa
The Ottawa Hospital
Ottawa, Ontario, Canada*

Katie S. Traylor, D.O.

*University of Pittsburgh
Pittsburgh, PA*

Behroze Adi Vachha, M.D., Ph.D.

*Weill Medical College of Cornell University
New York, NY*

Elizabeth K. Weidman, M.D.

*Weill Cornell Medical College
NewYork-Presbyterian Hospital
New York, NY*

Elysa Widjaja, M.D., MPH, Ph.D.

*Hospital for Sick Children
Toronto, Ontario, Canada*

Ona Wu, Ph.D.

*Harvard Medical School
Massachusetts General Hospital
Charlestown, MA*

Byung (Jason) Yoon, M.D., Ph.D.

*Harvard Medical School
Massachusetts General Hospital
Boston, MA*

Tina Young Poussaint, M.D., FACR

*Harvard Medical School
Boston Children's Hospital
Boston, MA*

Eugene Yu, M.D., FRCPC

*Princess Margaret Cancer Centre University of Toronto
Toronto, Ontario, Canada*

Nader Z. R. Zakhari, M.D.

*University of Ottawa
The Ottawa Hospital
Ottawa, Ontario Canada*

Deborah M. Zarnow, M.D.

*Perelman School of Medicine at the University of Pennsylvania
The Children's Hospital of Philadelphia
Philadelphia, PA*

Avraham B. Zlochow, M.D.

*Lenox Hill Hospital
Northwell Health
New York, NY*

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