



*33<sup>rd</sup> Annual Meeting of*

# The Eastern Neuroradiological Society

## Virtual! Impossible to Miss!

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

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### **SA-CME Credit Available**

27.0 AMA PRA Category 1 Credit(s)<sup>TM</sup>

### **Call for Abstracts • Deadline: July 9, 2021**

Those accepted need to prepare to submit final electronic poster by August 7<sup>th</sup>.

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

**For more information, visit [www.enrs.org](http://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 33<sup>rd</sup> 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)*<sup>TM</sup>. 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)*<sup>TM</sup>

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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## 2020-2021 ENRS Executive Committee

### PRESIDENT & CHAIR

**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  
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Houston, TX*

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**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  
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### TREASURER

**Mari Hagiwara, M.D.**  
*Associate Professor Radiology  
NYU Langone Medical Center  
New York, NY*

### 1<sup>ST</sup> 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*

### 2<sup>ND</sup> 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 9, 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 9<sup>th</sup>, 2021. The presenting author of the accepted abstracts is expected to register for the meeting by August 7, 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](mailto: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  
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### PEDIATRICS:

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*Associate Professor of Radiology and  
Radiological Sciences, JHH  
Director, Division of Pediatric Radiology and  
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**Paul Caruso, M.D.**  
*Assistant Professor in Radiology  
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Director of Pediatric Neuroimaging  
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Assistant in Radiology  
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### BRAIN:

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**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  
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### STROKE AND VASCULAR DISORDERS:

**Pina C. Sanelli, M.D., MPH, FACR**  
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**Pamela W. Schaefer, MD, FACR**  
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**Amy Fan-Yee Juliano, M.D.**  
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### SCIENTIFIC EXHIBITS:

**Laurent Letourneau-Guillon, M.D.**  
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Centre hospitalier de l'Université de Montréal  
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**Mari Hagiwara, M.D.**  
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**Mai-Lan Ho, M.D.**  
*Associate Professor of Radiology  
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Director, Advanced Neuroimaging Core  
Faculty Lead, Imaging Genomics Research Affinity Group  
Secretary, Association for Staff and Faculty Women  
Chair, Asian Pacific American Network  
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### NEUROINTERVENTIONAL:

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Clinical director, CMIT center,  
University of Maryland School of Medicine  
Director of Neuroimaging, BIOS Center  
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### 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)  
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### Rajiv Gupta, M.D., Ph.D.

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Associate Professor of Radiology  
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### SOCIAL MEDIA CHAIR

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# 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. Zakbari, 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.  
Stability and High Relaxivity: A Challenge or An Opportunity  
Steven Sireci, M.D.

### PEDIATRIC I

Moderators: Paul Caruso, M.D., FRCPC 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 Pediatric Epilepsy Imaging: Current & Future Practice  
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 Philips Healthcare North America  
Philips MR-Pushing the Boundaries with Innovation  
Donald Baker R. T.(R)(CT)(MR)

### 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**

Moderators: Adam E. Flanders, M.D. and Laila Alshafai, M.B.B.S.

- 10:15 – 10:35 Al and Spine Imaging  
*Lawrence N. Tanenbaum, M.D., FACR*
- 10:35 – 10:55 Reporting in Back Pain  
*Amish H. Doshi, M.D.*
- 10:55 – 11:15 Reporting in Post-Op Spine Imaging  
*Vikas Agarwal, M.D.*
- 11:15 – 11:35 It's Not A Tumor: Benign Spinal Lesions  
*Harprit S. Bedi, M.D.*
- 11:35 – 11:55 It is a Tumor: Malignant Spinal Lesions  
*Amit Aggarwal, M.D.*
- 11:55 – 12:15 PM Practical Applications of CSF Flow Imaging  
*Sara B. Strauss, M.D.*
- 12:15 – 1:15 Lunch & Learn How-To-Session ♦**  
Sponsored by Biogen  
TBD  
*Tammie Benzinger, M.D., Ph.D.*

**PEDIATRIC II**

Moderators: Doris D.M. Lin, M.D., Ph.D. and Neel Madan, M.D.

**SA-CME SESSION - Pediatric Neuroradiology**

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

**ADVANCED IMAGING & ARTIFICIAL INTELLIGENCE: CURRENT TECHNIQUES TO ENHANCE YOUR PRACTICE & EMERGING TECHNOLOGIES**

Moderator: Rajiv Gupta, M.D., Ph.D. and Sam Payabvash, M.D.

- 3:20 – 3:40 Deep Learning: Promise, Hype and Deep Concerns  
*Rajiv Gupta, M.D., Ph.D.*
- 3:40 – 4:00 Quantitative Feature Extraction and Prediction Modeling Using AI  
*Reza Forghani, M.D., Ph.D., FRCP*
- 4:00 – 4:15 Distributed Learning and Applications  
*Jayashree Kalpathy-Cramer, Ph.D.*
- 4:15 – 4:30 Automap: Can I Finally Forget About the K-Space?  
*Matthew Rosen, Ph.D.*
- 4:30 – 4:50 Deep Spine  
*Stuart Pomerantz, M.D.*

Friday, August 20, 2021(continued)

- 4:50 – 5:10 ED Implementation of an ICH Deep Learning Algorithm  
*R. Gilberto Gonzalez, M.D., Ph.D.*
- 5:10 – 5:30 ASNR Presidential Address & Lecture  
*Tina Young Poussaint, M.D., FACR, 2021-2022 President, ASNR*
- 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 Siemens Healthineers  
Neuro Updates with Siemens Healthineers  
*Troy Havens, Siemens Marketing Manager*

**ADULT BRAIN II: NON-TUMOR**

Moderators: Lev Bangiyev, DABR & Elizabeth K. Weidman, M.D.

- 8:00 – 8:20 Your Brain on Drugs: Neuroimaging of Toxic Encephalopathies  
*Laurent Letourneau-Guillon, MD*
- 8:20 – 8:40 MOGAD vs. NMOGD: MRI Characteristics and Update  
*Maria J. Borja Angulo, M.D.*
- 8:40 – 9:00 What Is That Thing in Your Brain? Imaging of Parasitic Infections of the CNS  
*Carlos H. Torres, M.D., FRCPC*
- 9:00 – 9:20 Imaging Adult Seizures  
*Joseph M. Mettenberg, M.D., Ph.D.*
- 9:20 – 9:40 Neuroimaging Update in Dementia: Structural and Physiologic Evaluation  
*Timothy M. Shepherd, M.D., Ph.D.*
- 9:40 – 10:00 SWI: Not Every Black Dot is a Hemorrhage  
*Javier M. Romero, M.D., FAHA*
- 10:00 – 10:15 Break - Visit Technical Exhibits**

**STROKE & VASCULAR DISORDERS II**

Moderators: Pamela W. Schaefer, M.D. and Katharina Eikermann-Haerter, M.D.

- 10:15 – 10:35 Perspectives on the Assessment of Collateral Blood Flow in Steno-occlusive Disease  
*David J. Mikulis, BSc, M.D., FRCP*
- 10:35 – 10:55 Intracranial Vessel Wall MR Imaging  
*Jae W. Song, M.D., M.S.*
- 10:55 – 11:15 Advanced Imaging in Hypoxic-Ischemic Injury  
*Ona Wu, Ph.D.*
- 11:15 – 11:35 Advanced Imaging in Hemorrhagic Stroke  
*Ajay Malhotra, M.D., MMM*
- 11:35 - 11:55 WNRS Lecture: Magnetoencephalography: Basic Principles and Clinical Applications  
*Roland R. Lee, M.D., FACR, WNRS Past President*
- 11:55 – 12:00 PM Presentation of ENRS 2022 Meeting  
*Doris D.M. Lin, M.D., Ph.D.*
- 12:00 – 1:00 Lunch & Learn How-To-Session ♦**  
Sponsored by Guerbet  
Pediatric CNS Magnetic Resonance Imaging and the Role of Gadolinium-based Contrast Agents  
*Paul A. Caruso, M.D.*

**SPINE II**  
Moderators: *A. Orlando Ortiz, MBA, FACR and Puneet S. Pawha, M.D.*

**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>
<b>2:50 – 3:05</b>	<b>Break and Visit Technical Exhibits</b>

**HEAD & NECK IMAGING II**  
Moderators: *Xuan V. Nguyen, M.D., Ph.D. and Pritesh J. Mehta, M.D.*

**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	<b>Conductive Hearing Loss - A Practical Approach</b> <i>Hugh D. Curtin, M.D., FACR</i>
5:45 – 6:00	Announcement of Awards <i>Laurent Letourneau-Guillon, M.D.</i>
<b>6:00</b>	<b>End of Session</b>

<b>7:00 – 7:30 AM</b>	<b>Visit Technical Exhibits</b>
<b>7:30 – 8:00</b>	<b>Breakfast &amp; Learn How-To-Session ♦</b> Sponsored by <i>cortechs.ai</i>  Current Applications of Artificial Intelligence and Deep Learning in the Evaluation and Image Guided Treatment of CNS Disorders <i>Chris N. Airriess, Ph.D., CEO cortechs.ai</i>

**EMERGENCY IMAGING AND HEAD & NECK III**  
Moderators: *Keerthi Arani, M.D. and Rohini Nadgir, M.D.*

**SA-CME SESSION - Emergency Neuroradiology**

8:00 – 8:20	Imaging of Spinal Emergencies: Acute or Not? <i>William A. Mehan, Jr., 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>
<b>10:00 – 10:15</b>	<b>Break and Visit Technical Exhibits</b>
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**  
Moderators: *Dipanka Sarma, M.D. and Yafell Serulle, M.D., Ph.D.*

10:55 – 11:15	Embolization of Chronic Subdural Hematoma: Ready for Primetime? <i>Timothy R. Miller, M.D.</i>
11:15 – 11:35	Management of Dural Arteriovenous Fistulae <i>Yafell Serulle, M.D., Ph.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>
<b>12:25 – 12:30</b>	<b>Closing Remarks</b> <i>Tanya J. Rath, M.D.</i>
<b>12:30</b>	<b>End of Meeting</b>



# Invited Faculty

**Vikas Agarwal, M.D.**

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