



34th Annual Meeting of

The Eastern Neuroradiological Society

August 18 – 21, 2022

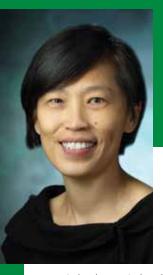
Hilton Burlington Lake Champlain Burlington, Vermont

SAM Credit Available 26.25 *AMA PRA Category 1 Credit(s)*™ Call for Abstracts
Deadline: June 24, 2022

Those accepted need to prepare to submit final electronic poster by July 24th.

Click Here to access the abstract submission form.

For more information, visit enrs.edusymp.com



Letter from the **Program Chair**

On behalf of the Eastern Neuroradiological Society (ENRS), I would like to invite you to join us for the 34th Annual Meeting of the Society held on August 18 - 21, 2022 in beautiful Burlington, Vermont.

The ENRS 2022 program presents indepth lectures covering essential topics in Neuroradiology and updates of the most

recent developments by phenomenal faculty speakers in our society, as well as nationally and internationally recognized guest speakers. Each day is focused on topics in Head and Neck, Brain, Pediatrics, Spine, Vascular imaging, and Neurointervention, with Lunch & Learn sessions. The advanced imaging and artificial intelligence session will feature stateof-the-art techniques and emerging technological advances that can enhance a high-value clinical practice. A new session of Global Radiology will highlight the opportunities and challenges of international outreach initiatives in addition to the innovation of "globally accessible MRI." This year there will be expanded time devoted to scientific presentations with live discussions. We encourage the younger generation of upcoming neuroradiologists and clinical scientists to submit as many scientific abstracts and excerpta extraordinaire as possible. Multiple SAM sessions are embedded in the program, allowing for MOC cycle certification and recertification. Finally, after 2 years of being physically apart, we will come together again for a fun and friendly competition in the "Stump the Stars" Jeopardy game just before the annual gala dinner.

The meeting location cannot be more perfect, as Vermont is green and friendly, and a cool place to be in the sizzling summer days of August. Burlington is a vibrant city located along beautiful Lake Champlain. The conference venue is nestled between Lake Champlain and the Burlington historic downtown area. Burlington is an ideal setting to relax with family and friends, enjoy a bike ride on the Burlington bike path alongside the shoreline, sail on Lake Champlain, or a stroll through the picturesque historic Burlington downtown. All are easily within a 5-minute walk from the hotel. Whether you are a history buff, food connoisseur, or art aficionado, Burlington has something to offer for everyone.

This year we offer a hybrid meeting for those who cannot join us in person. Registrants will be able to access the meeting materials and will view the lectures via a live-streamed program.

All attendees will receive meeting materials such as the program, faculty list, electronic syllabus, and as an added bonus, 90-days of on-demand access to the recorded lectures following the conclusion of the meeting.

The ENRS annual meeting has always been an intimate, family-oriented, and casual event that grows to be the favorite of many, including mine. It is a unique opportunity to reunite with old friends and make new connections, interact with nationally and internationally recognized physicians and scientists who are experts and leaders in neuroimaging, and learn and keep on top of new advances in the field.

My immense gratitude to the members of our Executive Committee and Program Committee who provided me with invaluable advice and help, the superb faculty speakers and moderators who agreed to participate, our generous sponsors, and the program managers at ESI.

The meeting will be 31/2 days long -- let's reconnect, learn and share.

We all look forward to seeing you in August!

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

President-Elect and Program Chair

Target Audience

The ENRS 34th Annual Meeting is primarily intended and designed for academic and private practice neuroradiologists, general radiologists, and other health professionals whose practice involves neuroradiology, neurointervention, otolaryngology, neurosurgery, neurology, and imaging science. The meeting is also intended for trainees and is an excellent venue for physicians-in-training, including residents and fellows. The program covers current imaging of the brain, spine, head, and neck, as well as neurointervention in adults and children. Up-to-date guidelines, cutting-edge techniques, and image-guided interventions will be reviewed to enhance your diagnostic and interventional neuroradiology practice. In addition, current and future applications of artificial intelligence, deep learning, 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 26.25 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Self-Assessment Modules (SAMs): Educational Symposia has been granted Deemed Status by the American Board of Radiology (ABR). This allows Educational Symposia to develop and implement SAMs that satisfy ABR Part II MOC requirements

Educational Objectives

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

- Effectively evaluate and derive a differential diagnosis for various diseases in the neck, sinonasal cavity, salivary gland, and temporal bone in adults and children
- · Discuss optimal techniques and approaches to characterize head and neck tumors
- Explain the up-to-date classification of head and neck vascular anomalies and treatment options
- Understand and implement artificial intelligence, deep learning, and radiomics in neuroradiology workflow
- Develop an approach for the evaluation of pediatric disorders, including congenital malformations of the brain and spine, neuro-metabolic disorders, pediatric brain tumors, abusive head trauma, and epilepsy
- Describe the updated classification of brain tumors, understand and implement advanced imaging techniques in tumor assessment, and recognize CNS treatment-induced effects and tumor mimics
- Differentiate between various neurologic autoimmune diseases and **CNS** inflammation
- Discuss current structural and molecular imaging in aging and dementia
- Understand the clinical and imaging presentations of COVID-19 related cerebrovascular disease 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
- Incorporate advanced neuroimaging techniques including vessel wall imaging, cerebral perfusion, and advanced CT technology in the evaluation of cerebrovascular diseases
- Understand the principles and pitfalls of advanced neurovascular imaging methods in interrogating cerebrovascular structures and functional reserves
- Evaluate and characterize infectious, inflammatory, degenerative, traumatic, vascular, and malignant disorders of the spine using conventional and advanced imaging techniques while providing clinically relevant reporting
- Recognize spine, spinal cord, and brachial plexus pathologies
- · Discuss the best practices for evaluation of CSF hypotension
- Understand endovascular assessment and treatment of tinnitus
- Describe state-of-the-art technologies and neurointerventional procedures for image-guided treatment of CNS disorders

No special educational preparation is required for this CME activity.



2021-2022 **ENRS Executive Committee**

PRESIDENT & CHAIR

Tanya J. Rath, M.D.

Associate Professor Division Chair of Neuroradiology Senior Associate Consultant Departments of Radiology, Otolaryngology & Neurosurgery Mayo Clinic College of Medicine Phoenix, AZ

VICE-PRESIDENT/PRESIDENT-ELECT

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

Associate Professor Russell H. Morgan Department of Radiology and Radiological Science Johns Hopkins University School of Medicine Baltimore, MD

SECRETARY

Mari Hagiwara, M.D.

Associate Professor Radiology NYU Langone Health New York, NY

TREASURER

Amy Fan-Yee Juliano, M.D.

Assistant Professor of Radiology Massachusetts Eye and Ear, Harvard Medical School

1ST PAST-PRESIDENT

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

2ND PAST-PRESIDENT

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

Professor & Vice-Chair of AI, Department of Radiology University of Florida College of Medicine Gainesville, FL

ENRS Abstract Submission:

Deadline for Abstract Submissions June 24, 2022

Abstracts will be accepted for presentation 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, health policy as well as technical abstracts.

The deadline for abstract submissions is Friday, June 24, 2022. Authors of selected abstracts will be notified by early July. The presenting author of the accepted abstracts is expected to register for the meeting by August 1, 2022 and pay the meeting registration fee.

Interested candidates should complete the abstract submission form and submit a copy of their abstract(s) electronically to the Scientific Presentations Committee at enrs.scientific@ gmail.com (Word or PDF format). Please contact us regarding any issue encountered with the submission form.

2021-2022 **ENRS Program Committee**

PROGRAM CHAIR:

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

Associate Professor Russell H. Morgan Department of Radiology and Radiological Science Johns Hopkins University School of Medicine Baltimore, MD

HEAD AND NECK:

Mari Hagiwara, M.D.

Associate Professor Radiology NYU Langone Health New York, NY

Amy F. Juliano, M.D.

Assistant Professor of Radiology Massachusetts Eye and Ear Harvard Medical School Roston, MA

ARTIFICIAL INTELLIGENCE AND ADVANCED IMAGING:

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

Professor & Vice-Chair of AI, Department of Radiology University of Florida College of Medicine Gainesville, FL

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

Division Chief, Neuroradiology, Massachusetts General Hospital Associate Professor, Harvard Medical School Director, CT Innovation and Advanced X-ray Imaging Science (AXIS) Center Service Chief, Ŕadiography Site Miner, Consortia for Integration of Medicine and Innovative Technologies (CIMIT) Boston, MA

BRAIN:

Carlos H. 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

Suyash Mohan, M.D.

Juyasi Monata, M.D. Associate Professor of Radiology and Neurosurgery Director, Neuroradiology Clinical Research Division Division of Neuroradiology, Department of Radiology Perelman School of Medicine at the University of Pennsylvania Philadelphia, PA

PEDIATRIC NEURORADIOLOGY:

Aylin Tekes-Brady, M.D.

Associate Professor of Radiology and Radiological Sciences Johns Hopkins Hospital Director, Division of Pediatric Radiology and Pediatric Neuroradiology Charlotte R. Bloomberg Children's Center Baltimore, MD

Arastoo Vossough, M.D., Ph.D.

Lariussa T. Bilaniuk Endowed Chair in Pediatric Larnusa 1. Buanuk Endowed Cha Neuroradiology Children's Hospital of Philadelphia Associate Professor of Radiology University of Pennsylvania Philadelphia, PA

SPINE:

Amish H. Doshi, M.D.

AMISH H. DOSHI, M.D.
Associate Professor of Radiology and Neurosurgery
Vice Chairman of Ambulatory Services, Radiology
Chief, Division of Neuroradiology
Associate Program Director, Radiology Residency
Icahn School of Medicine at Mount Sinai
New York, NY

Majid Khan, M.D.

Associate Professor of Radiology, ENT and Neurology Director, Non-Vascular Spine Intervention (Neuro) Department of Radiology Jefferson University Hospital and SK Medical College Adjunct Associate Professor Russell. H Morgan Department of Radiology Johns Hopkins Hospital Baltimore, MD

STROKE AND NEUROINTERVENTION:

Dheeraj Gandhi, M.D.

Professor and Vice Chair of Radiology Professor of Neurology and Neurosurgery Director, Interventional Neuroradiology Clinical Director, CMIT Center University of Maryland School of Medicine Baltimore, MD

ADVANCED NEUROVASCULAR IMAGING: STRUCTURE & FUNCTION:

Bruce A. Wasserman, M.D.

Bruce A. Wasserman, M.D.
Vice Chair of Clinical Research
Professor of Radiology, Neurosurgery, and Vascular Surgery
Department of Diagnostic Radiology & Nuclear Medicine
University of Maryland School of Medicine
Director of Neurovascular Imaging
University of Maryland Medical Center
Adjunct Professor of Radiology
Department of Radiology and Radiological Sciences
Johns Hopkins University School of Medicine
Baltimore. MD Baltimore, MD

GLOBAL HEALTH AND GLOBAL RADIOLOGY:

Maria J. Borja, M.D.

Assistant Professor of Radiology Division of Neuroradiology NYU School of Medicine New York, NY

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

Associate Professor of Radiology Chief, Division of Neuroradiology Department of Radiology University of North Carolina Chapel Hill, NC

SCIENTIFIC PRESENTATIONS:

Laurent Letourneau-Guillon M.D., M.Sc.

Associate Professor of Radiology Centre Hospitalier de l'Universite de Montreal (CHUM) Centre de Recherche du CHUM (CRCHUM) Montreal, Quebec Canada

Mai-Lan Ho, M.D.

Associate Professor of Radiology Director, Translational Imaging (I3) Core 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

Jae W. Song, M.D., M.S.

Date W. 3018, M.D., M.S.
Assistant Professor of Radiology
Department of Diagnostic Radiology
Division of Neuroradiology
Hospital of the University of Pennsylvania
Philadelphia, PA

STUMP THE STARS:

J. Eric Schmitt, M.D., Ph.D.

Assistant Professor of Radiology and Psychiatry Division of Neuroradiology Perelman School of Medicine at the University of Pennsylvania Philadelphia, PA

SOCIAL MEDIA:

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

3:30 – 3:50

3:50 - 4:10

Clinical Applications of 7T MRI for Brain Imaging

Refreshment Break and Visit Exhibits

Peter B. Barker, D.Phil.

THURSDAY, AUGUST 18, 2022		THURSDAY, AUGUST 18, 2022 (continued)		
8:00-9:00 AM	Registration & Continental Breakfast for Attendees	PEDIATRIC NEURORADIOLOGY		
9:00 – 9:20	Welcome - Tanya J. Rath, M.D.	Moderators: Bruno P. Soares, M.D. and Thierry A.G.M. Huisman, M.D., P.D., EDiNR, EDiPNR, FICIS		
9:20 – 9:30	Introduction Doris D. M. Lin, M.D., Ph.D.	4:10 – 4:30	Congenital Malformations of the Posterior Fossa Elizabeth K. Weidman, M.D.	
HEAD AND NECK Moderators: Sara E	K I 3. Strauss, M.D. and Pritesh J. Mehta, M.D.	4:30 – 4:50	Abusive Head Trauma Thierry A.G.M. Huisman, M.D., P.D., EDiNR, EDiPNR, FICIS	
SAM SESSION -	HEAD AND NECK PATHOLOGY	4:50 – 5:10	Metabolic Disorders	
9:30 – 9:50	Vascular Anomalies: Diagnosis and Treatment Options <i>Christopher R. Bailey, M.D.</i>	5:10 – 5:30	Bruno P. Soares, M.D. Epilepsy	
9:50 – 10:10	Salivary Gland Pathology: A Case-Based Approach Amit Mahajan, M.D.	SAM SESSION:	Elysa Widjaja, M.D., MPH, Ph.D. PEDIATRIC NEURORADIOLOGY	
10:10 – 10:30	The Role of Nuclear Medicine Imaging in the Assessment of Head and Neck Tumors Katie S. Traylor, D.O.	5:30 – 5:50	Pediatric Brain Tumors: Update Melike Guryildirim, M.D.	
10:30 – 10:50	Perineural Spread of Tumor Nafi Aygun, M.D., FACR	5:50 – 6:10	Congenital Malformation of the Spine Karuna V. Shekdar, M.D.	
10:50 – 11:30	Temporal Bone Imaging: Cases, Pearls, and Updates Moderator: Hugh D. Curtin, M.D., FACR	6:10 – 6:30	Case-Based Review: Advanced Neuroimaging Techniques in Pediatrics Mai-Lan Ho, M.D.	
	Panel: Caroline B. Robson, MBChB, Gul Moonis, MBBS, Felice D'Arco, M.D., Amy F. Juliano, M.D.	6:30	End of Session	
11:30 – 12:00 PM	•	6:30 – 8:00	Welcome Reception	
11:30 – 12:00 PM	Scientific Papers #1 ♦ Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S.	6:30 – 8:00 FRIDAY, AUGUST	·	
11:30 – 12:00 PM 12:00 – 12:30	Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Scientific Papers #2 ◆ Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D.,		19, 2022 Breakfast & Learn How-To Session ◆ Sponsored by Olea Medical	
	Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Scientific Papers #2 ◆	FRIDAY, AUGUST	19, 2022 Breakfast & Learn How-To Session ◆	
12:00 – 12:30 12:30 – 1:30 ADVANCED IMA	Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Scientific Papers #2 ◆ Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Boxed Lunch for Attendees GING AND ARTIFICIAL INTELLIGENCE	FRIDAY, AUGUST	Breakfast & Learn How-To Session ♦ Sponsored by Olea Medical Discriminating Progression From Radionecrosis Through Amide Proton Transfer Weighted Imaging in Brain Metastases	
12:00 – 12:30 12:30 – 1:30 ADVANCED IMA	Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Scientific Papers #2 ◆ Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Boxed Lunch for Attendees	FRIDAY, AUGUST 7:00 – 7:30 AM 7:30 – 8:00 AM BRAIN: NEOPLA	Breakfast & Learn How-To Session ◆ Sponsored by Olea Medical Discriminating Progression From Radionecrosis Through Amide Proton Transfer Weighted Imaging in Brain Metastases Lucia Nichelli M.D. Visit Exhibits	
12:00 – 12:30 12:30 – 1:30 ADVANCED IMA Moderators: A. Joh	Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Scientific Papers #2 ◆ Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Boxed Lunch for Attendees GING AND ARTIFICIAL INTELLIGENCE n Tsiouris, M.D., and Karen A. Buch, M.D. Crowd-Sourcing with AI	FRIDAY, AUGUST 7:00 – 7:30 AM 7:30 – 8:00 AM BRAIN: NEOPLA	Breakfast & Learn How-To Session ◆ Sponsored by Olea Medical Discriminating Progression From Radionecrosis Through Amide Proton Transfer Weighted Imaging in Brain Metastases Lucia Nichelli M.D. Visit Exhibits	
12:00 – 12:30 12:30 – 1:30 ADVANCED IMA Moderators: A. Joh 1:30 – 1:50	Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Scientific Papers #2 ◆ Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Boxed Lunch for Attendees GING AND ARTIFICIAL INTELLIGENCE In Tsiouris, M.D., and Karen A. Buch, M.D. Crowd-Sourcing with Al Rajiv Gupta, M.D., Ph.D. Practical Al Implementation in Clinical Practice: Algorithm Evaluation and Orchestration	FRIDAY, AUGUST 7:00 – 7:30 AM 7:30 – 8:00 AM BRAIN: NEOPLA Moderators: Rajiv	Breakfast & Learn How-To Session ◆ Sponsored by Olea Medical Discriminating Progression From Radionecrosis Through Amide Proton Transfer Weighted Imaging in Brain Metastases Lucia Nichelli M.D. Visit Exhibits SM Mangla, M.D. and Susie Yi Huang, M.D, Ph.D. 2021 WHO Classification of CNS Tumors: What We Need to Know for Tumor Board!	
12:00 – 12:30 12:30 – 1:30 ADVANCED IMA Moderators: A. Joh 1:30 – 1:50 1:50 – 2:10	Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Scientific Papers #2 ◆ Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Boxed Lunch for Attendees GING AND ARTIFICIAL INTELLIGENCE In Tsiouris, M.D., and Karen A. Buch, M.D. Crowd-Sourcing with Al Rajiv Gupta, M.D., Ph.D. Practical Al Implementation in Clinical Practice: Algorithm Evaluation and Orchestration Reza Forghani, M.D., Ph.D. The Future of Al. 5 Year Overview	7:00 – 7:30 AM 7:30 – 8:00 AM BRAIN: NEOPLA Moderators: Rajiv 8:00 – 8:20	Breakfast & Learn How-To Session ◆ Sponsored by Olea Medical Discriminating Progression From Radionecrosis Through Amide Proton Transfer Weighted Imaging in Brain Metastases Lucia Nichelli M.D. Visit Exhibits SM Mangla, M.D. and Susie Yi Huang, M.D, Ph.D. 2021 WHO Classification of CNS Tumors: What We Need to Know for Tumor Board! Raymond Y. Huang, M.D., Ph.D. Beyond Choline: Problem Solving with MR Spectroscopy: 2 Hydroxyglutarate (2HG) and Other Metabolites Robert J. Young, M.D. Functional MRI and DTI Tractography for Brain Mapping: Towards "Precision Surgery" and "Optimizing Outcomes"	
12:00 – 12:30 12:30 – 1:30 ADVANCED IMA Moderators: A. Joh 1:30 – 1:50 1:50 – 2:10 2:10 – 2:30	Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Scientific Papers #2 ◆ Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Boxed Lunch for Attendees GING AND ARTIFICIAL INTELLIGENCE In Tsiouris, M.D., and Karen A. Buch, M.D. Crowd-Sourcing with Al Rajiv Gupta, M.D., Ph.D. Practical Al Implementation in Clinical Practice: Algorithm Evaluation and Orchestration Reza Forghani, M.D., Ph.D. The Future of Al: 5 Year Overview Keith Dreyer, D.O., Ph.D. Optimized Imaging of the Instrumented Spine Lawrence N. Tanenbaum, M.D., FACR Novel Tracers in Neuro-Oncology: Beyond FDG	7:30 – 8:00 AM 7:30 – 8:00 AM BRAIN: NEOPLA Moderators: Rajiv 8:00 – 8:20 8:20 – 8:40 8:40 – 9:00	Breakfast & Learn How-To Session ◆ Sponsored by Olea Medical Discriminating Progression From Radionecrosis Through Amide Proton Transfer Weighted Imaging in Brain Metastases Lucia Nichelli M.D. Visit Exhibits SM Mangla, M.D. and Susie Yi Huang, M.D, Ph.D. 2021 WHO Classification of CNS Tumors: What We Need to Know for Tumor Board! Raymond Y. Huang, M.D., Ph.D. Beyond Choline: Problem Solving with MR Spectroscopy: 2 Hydroxyglutarate (2HG) and Other Metabolites Robert J. Young, M.D. Functional MRI and DTI Tractography for Brain Mapping: Towards "Precision Surgery" and "Optimizing Outcomes" Behroze Adi Vachha, M.D., Ph.D.	
12:00 – 12:30 12:30 – 1:30 ADVANCED IMA Moderators: A. Joh 1:30 – 1:50 1:50 – 2:10 2:10 – 2:30 2:30 – 2:50	Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Scientific Papers #2 ◆ Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S. Boxed Lunch for Attendees GING AND ARTIFICIAL INTELLIGENCE In Tsiouris, M.D., and Karen A. Buch, M.D. Crowd-Sourcing with Al Rajiv Gupta, M.D., Ph.D. Practical Al Implementation in Clinical Practice: Algorithm Evaluation and Orchestration Reza Forghani, M.D., Ph.D. The Future of Al: 5 Year Overview Keith Dreyer, D.O., Ph.D. Optimized Imaging of the Instrumented Spine Lawrence N. Tanenbaum, M.D., FACR	7:30 – 8:00 AM 7:30 – 8:00 AM BRAIN: NEOPLA Moderators: Rajiv 8:00 – 8:20 8:20 – 8:40	Breakfast & Learn How-To Session ◆ Sponsored by Olea Medical Discriminating Progression From Radionecrosis Through Amide Proton Transfer Weighted Imaging in Brain Metastases Lucia Nichelli M.D. Visit Exhibits SM Mangla, M.D. and Susie Yi Huang, M.D, Ph.D. 2021 WHO Classification of CNS Tumors: What We Need to Know for Tumor Board! Raymond Y. Huang, M.D., Ph.D. Beyond Choline: Problem Solving with MR Spectroscopy: 2 Hydroxyglutarate (2HG) and Other Metabolites Robert J. Young, M.D. Functional MRI and DTI Tractography for Brain Mapping: Towards "Precision Surgery" and "Optimizing Outcomes"	

9:20 - 9:40

9:40 - 10:00

10:00 - 10:20

Treatment-Induced Neurotoxicity: Chemo, Immuno and CART-Cell Therapy

CNS Neoplasms and Mimics: Eliminating "Mass" Confusion

Carlos H. Torres, M.D., FRCPC

Refreshment Break and Visit Exhibits

Kevin A. Hsu, M.D.

Program (Continued)

FRIDAY, AUGUST 19, 2022 (continued)

	VASCU	

Moderators: Varun Naragum, M.D. and Dheeraj Gandhi, M.D.

10:20 – 10:40 Anterior Circulation Strokes: Evidence-Based Workflow

Prashant Raghavan, MBBS

10:40 – 11:00 Applications of Machine Learning in Identification and

Outcome Prediction of Stroke

Sam Payabvash, M.D.

11:00 – 11:20 Imaging of Collaterals: What Does the Evidence Tell

(and Not Tell) Us?

Ajay Malhotra, M.D., MMM

11:20 – 11:40 WNRS Lecture: Small Vessel Vasculopathies

Jennifer L. Becker M.D., BMBS, MRCS, FRCR, WNRS President

11:40 – 12:00 PM COVID and Its Impact on Cerebrovascular Disease

Varun Naragum, M.D.

12:00 – 12:30 Scientific Papers #3 ♦

Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D.,

Jae W. Song, M.D., M.S.

12:30 – 1:30 Lunch & Learn How-To Session ♦

Sponsored by Bracco Diagnostics, Inc.

Gadolinium-Based Contrast Agents: Past, Present and Future

Gianpaolo Pirovano, MD

1:30 – 2:00 Scientific Papers #4 ♦

Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D.,

Jae W. Song, M.D., M.S.

NEUROINFLAMMATION

Moderators: Lindsay A. Cherpak, BSc., M.D., FRCPC and Anna Derman, M.D.

SAM SESSION: NEUROINFLAMMATION

2:00 – 2:20	Advanced Imaging in Multiple Sclerosis Christopher G. Filippi, M.D.
2:20 – 2:40	GFAP Astrocytopathy and Other Autoimmune Encephalitides and Their Mimics Paulo Puac Polanco, M.D., MS.c.
2:40 – 3:00	Bilateral Abnormality of the Deep Gray Matter: Roadmap to Diagnosis Carlos Zamora, M.D., Ph.D.
3:00 – 3:20	Fire and Ice: Neuro-Ophthalmology Imaging of NMO, MOG and OMG! Mary Maher, M.D.
3:20 – 3:40	Imaging Spectrum of CNS Vasculitis

Laurent Letourneau-Guillon, M.D.

3:40 – 4:00 Break and Visit Exhibits

FRIDAY, AUGUST 19, 2022 (continued)

NEURODEGENERATION

Moderators: Ilya M. Nasrallah, M.D., Ph.D. and Jana Ivanidze, M.D., Ph.D.

SAM SESSION: NEURODEGENERATION

4:00 – 4:20	Molecular Imaging Biomarkers of Alzheimer's Disease <i>Ana M. Franceschi, M.D., Ph.D.</i>
4:20 – 4:40	Cerebral Amyloid Angiopathy (CAA) and All Its Faces Eduardo Portela de Oliveira, M.D.
4:40 – 5:00	Neuroimaging in Non-Alzheimer's Dementias: The Big 5! <i>Karine Massicotte-Tisluck, M.D.</i>
5:00 - 5:20	The Dynamics of the Glymphatic System

Charles R.G. Guttmann, M.D.

5:20 – 5:40 Current State of Affairs of the ASNR

Current State of Affairs of the ASNR *Erin Simon Schwartz, M.D., FACR*

5:40 – 5:45 Presentation of ENRS 2023 Meeting

Mari Hagiwara, M.D.

5:45 End of Session

5:45 – 6:05 ENRS Annual Business Meeting (ENRS Members Only) ♦

SATURDAY, AUGUST 20, 2022

7:00 – 7:30 AM Breakfast & Learn How-To Session ♦

Sponsored by Philips Healthcare North America
MR 7700 and seamless integration of MultiNuclei

Elizabeth Vincent

7:30 - 8:00 AM Visit Exhibits

SPINEI

Moderators: Rihan Khan, M.D. and Michael H. Schecht, M.D.

8:00 – 8:20	Reporting in Spine Amish H. Doshi, M.D.
8:20 – 8:40	Al Applications in Clinical Spine Imaging

SAM SESSION: SPINE I

8:40 – 9:00	Infections in the Spinal Cord and Meninges Brian P. Rigney, M.D.
9:00 – 9:20	Signal Changes within the Cord: What Does It Mean? Maria J. Borja, M.D.
9:20 – 9:40	Spine Emergencies Harprit S. Bedi, M.D.
9:40 – 10:00	Spinal Angiography Overview: Case-Based Illustration

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

HEAD AND NECK II

Moderators: Jared M. Steinklein, M.D. and Osamu Sakai, M.D., Ph.D., FACR

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10:20 – 10:40	Embryologic Basis of Head and Neck Lesions: Making the Connections Peter M. Som, M.D., FACR, F.R.S.M.
10:40 – 11:00	Solid Pediatric Neck Masses Karen K. Moeller, M.D.
11:00 – 11:20	Immune-Mediated Responses in the Head and Neck Claudia F.E. Kirsch, M.D., FASFNR, FACR
11:20 – 11:40	Differential Diagnosis of Sinonasal Masses Deborah R. Shatzkes, M.D.
11:40 – 12:00 PM	Parathyroid Imaging: The Role of MRI C. Douglas Phillips, M.D., FACR

Program (Continued)

SATURDAY, AUGUST 20, 2022 (continued)		SUNDAY, AUGUST 21, 2022		
12:00 – 12:30	Scientific Papers #5 ♦ Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D., Jae W. Song, M.D., M.S.	7:00 – 7:30 AM	Breakfast & Learn How-To Session ♦ Sponsored by Bayer Healthcare	
12:30 – 1:00	Scientific Papers #6 ♦ Laurent Letourneau-Guillon, M.D., Mai-Lan Ho, M.D.,		Gadolinium-Based Contrast Agents (GBCAs): Update and Current Understanding José Alberto Briceño Polacre, M.D., Ph.D.	
400 000	Jae W. Song, M.D., M.S.	7:30 – 8:00 AM	Visit Exhibits	
1:00 – 2:00 SPINE II Moderators: Tanu	Lunch on Your Own ir Rizvi, MBBS, M.D., DM and Rohini Nadgir, M.D.	STRUCTURE AN	RACRANIALVASCULAR IMAGING: ID FUNCTION A. Wasserman, M.D, and David J. Mikulis, BSc, M.D., FRCR	
2:00 – 2:20	Basics of Spine Intervention Vikas Agarwal, M.D.	8:00 – 8:20	Vessel Wall Imaging: Pearls and Pitfalls Bruce A. Wasserman, M.D.	
2:20 – 2:40	Advanced Oncologic Imaging of Spine: Diffusion <i>Amit Aggarwal, M.D.</i>	8:20 – 8:40	Cerebrovascular Reactivity Mapping David J. Mikulis, BSc, M.D., FRCR	
2:40 – 3:00	Advanced Oncologic Imaging of Spine: Perfusion <i>Majid A. Khan, MBBS, M.D.</i>	8:40 – 9:20	Intracranial Vascular Imaging: Cases, Pearls, and Best Practice Laurent Letourneau-Guillon, M.D., Michelle P. Lin, M.D., Clifford J. Eskey, M.D., Ph.D., and Dheeraj Gandhi, M.D.	
3:00 – 3:20	Brachial and Lumbosacral MR Neurography: A Less Perplexing Perspective of the Plexus Jeffrey A. Belair, M.D.		IAGING (CASE-BASED) I Hassankhani, M.D.	
3:20 – 3:40	Spontaneous Intracranial Hypotension: Where's the Leak? William A. Mehan, Jr., M.D., MBA	9:20 – 9:40	Head and Neck Emergencies Gopi K. Nayak, M.D.	
3:40 – 4:00	Refreshment Break and Visit Exhibits	9:40 – 10:00	Pitfalls in the Imaging of Head Trauma: When You Need to Think Twice!!	
			Siavash Behbahani, M.D.	
	TH, GLOBAL RADIOLOGY a. I. Baria, M.D., and Carlos Zamora, M.D., Ph.D.		Siavash Behbahani, M.D.	
Moderators: Mari	a J. Borja, M.D. and Carlos Zamora, M.D., Pb.D.	10:00 – 10:20	Siavash Behbahani, M.D. Refreshment Break and Visit Exhibits	
		NEUROINTERVE	Refreshment Break and Visit Exhibits	
Moderators: Mari	A J. Borja, M.D. and Carlos Zamora, M.D., Ph.D. RAD-AID, Optimizing Access to Radiology in Low Resource Regions	NEUROINTERVE	Refreshment Break and Visit Exhibits ENTION	
<i>Moderators: Mari</i> 4:00 – 4:20	RAD-AID, Optimizing Access to Radiology in Low Resource Regions Daniel J. Mollura, M.D. Imaging the World: Transforming Global Health	NEUROINTERVE Moderators: Gerar	Refreshment Break and Visit Exhibits ENTION d Deib, M.D. and Dipanka Sarma, M.D. Mechanical Thrombectomy in Acute Ischemic Stroke: New Horizons and Possibilities Manuel C. Fortes, M.D. Flow Diversion of Intracranial Aneurysms: Lessons Learned from Clinical Practice	
<i>Moderators: Mari</i> 4:00-4:20 4:20-4:40	RAD-AID, Optimizing Access to Radiology in Low Resource Regions Daniel J. Mollura, M.D. Imaging the World: Transforming Global Health Kristen K. Destigter, M.D., FACR Globally Accessible MRI: Current State and Challenges	NEUROINTERVE Moderators: Gerar 10:20 – 10:40	Refreshment Break and Visit Exhibits ENTION If Deib, M.D. and Dipanka Sarma, M.D. Mechanical Thrombectomy in Acute Ischemic Stroke: New Horizons and Possibilities Manuel C. Fortes, M.D. Flow Diversion of Intracranial Aneurysms: Lessons Learned from Clinical Practice Timothy R. Miller, M.D. Chronic SDH: Lessons from Early Endovascular Experience	
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12:30

End of Meeting

Invited Faculty

Mariam Aboian, M.D., Ph.D.

Yale University School of Medicine New Haven, CT

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

Nafi Aygun, M.D.

University of South Florida Tampa, FL

Christopher R. Bailey, M.D.

The Johns Hopkins Hospital Baltimore, MD

Peter B. Barker, D.Phil.

Johns Hopkins University School of Medicine Baltimore, MD

Jennifer L. Becker, M.D., BMBS, MRCS, FRCR

University of Arizona Phoenix, AZ

Harprit S. Bedi, M.D.

Boston University School of Medicine Boston, MA

Siavash Behbahani, M.D.

Boston University School of Medicine Boston, MA

Jeffrey A. Belair, M.D.

Thomas Jefferson University Philadelphia, PA

Uttam K. Bodanapally, MBBS

University of Maryland Medical Center Baltimore, MD

Maria J. Borja, M.D., M.D.

NYU School of Medicine New York, NY

Karen A. Buch, M.D.

Harvard Medical School Massachusetts General Hospital Boston, MA

Lindsay A. Cherpak, BSc., M.D., FRCPC

University of Toronto Toronto, ON

Hugh D. Curtin, M.D., FACR

Harvard Medical School Boston, MA

Felice D'Arco, M.D.

Great Ormond Street Hospital for Children Guy's and St Thomas' Foundation Trust & Evelina Children's Hospital London - UK

Reade De Leacy, M.D., MBBS (Hons) FRANZCR

Mount Sinai Hospital New York, NY

Gerard Deib, M.D.

West Virginia University Morgantown, WV

Anna Derman, M.D.

Maimonides Medical Center SUNY Downstate Health Sciences University Brooklyn, NY

Kristen K. Destigter, M.D., FACR

Larner College of Medicine at the University of Vermont University of Vermont Health Network Burlington, VT

Amish H. Doshi, M.D.

Icahn School of Medicine at Mount Sinai New York, NY

Keith J. Dreyer, D.O., Ph.D.

Massachusetts General Hospital Harvard Medical School Boston, MA

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

Dartmouth Hitchcock Medical Center Hanover, NH

Christopher G. Filippi, M.D.

Tufts University School of Medicine Tufts Medical Center Boston, MA

Adam E. Flanders, M.D.

Thomas Jefferson University Hospital Philadelphia, PA

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

University of Florida College of Medicine Gainesville, FL

Manuel C. Fortes, M.D.

University of Virginia - School of Medicine Fairfax Radiological Consultants, PC Fairfax, VA

Ana M. Franceschi, M.D., Ph.D.

Donald and Barbara Zucker School of Medicine at Hofstra/Northwell New York. NY

Dheeraj Gandhi, M.D.

University of Maryland School of Medicine Baltimore, MD

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

Massachusetts General Hospital Harvard Medical School Boston, MA

Melike Guryildirim, M.D.

Johns Hopkins University School of Medicine Baltimore, MD

Charles R.G. Guttmann, M.D.

Brigham and Women's Hospital Harvard University School of Medicine Boston, MA

Alvand Hassankhani, M.D.

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

Mai-Lan Ho, M.D.

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

Kevin A. Hsu, M.D.

Albert Einstein College of Medicine Bronx, NY

Susie Yi Huang, M.D., Ph.D.

Massachusetts General Hospital Charlestown, MA

Raymond Y. Huang, M.D., Ph.D.

Harvard Medical School Brigham and Women's Hospital Boston, MA

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

Amy F. Juliano, M.D.

Harvard Medical School Boston, MA

Majid A. Khan, MBBS, M.D.

Jefferson University Hospital and SK Medical College Baltimore. MD

Rihan Khan, M.D.

Dartmouth-Hitchcock Medical Center Lebanon, NH

Claudia F.E. Kirsch, M.D., FASFNR, FACR

Yale Department of Radiology and Biomedical Sciences PhD Candidate School Clinical Dentistry, University of Sheffield BMEII, Icahn School of Medicine at Mount Sinai

BME11, Icahn School of Medicine at Mount Sina New York, NY

Laurent Letourneau-Guillon, M.D.

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

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

Johns Hopkins University School of Medicine Baltimore, MD

Michelle P. Lin, M.D.

Mayo Clinic School of Medicine Jacksonville, FL

Amit Mahajan, M.D.

Yale University School of Medicine New Haven, CT

Mary D. Maher, M.D.

Acumen Medical Imaging and Interventional Pensacola, FL

Ajay Malhotra, M.D., MMM

Yale University School of Medicine New Haven, CT

Rajiv Mangla, M.D.

The SUNY Upstate Medical University Syracuse NY

Karine Massicotte-Tisluck, M.D.

Centre Hospitalier Universitaire de Sherbooke (CHUS) Sherbrooke, QC, Canada

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 Harvard Medical School Boston, MA

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

Invited Faculty

Frank J. Minja, M.D.

Emory University School of Medicine Atlanta, GA

Karen K. Moeller, M.D.

Norton Children's Hospital Louisville, KY

Suyash Mohan, M.D.

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

Daniel Mollura, M.D.

RAD-AID International Chevy Chase, MD

Gul Moonis, MBBS

NYU Langone Medical Center New York, NY

Ali Nabavizadeh, M.D.

University of Pennsylvania Philadelphia, PA

Rohini Nadgir, M.D.

The Johns Hopkins Hospital Baltimore, MD

Varun Naragum, M.D.

UMass Memorial Medical Center Worcester, MA

Ilya M. Nasrallah, M.D., Ph.D.

University of Pennsylvania Philadelphia, PA

Gopi K. Nayak, M.D.

NYU Langone Medical Center New York, NY

Emanuele Orru, M.D.

Tufts University School of Medicine, Boston, MA Lahey Hospital and Medical Center Burlington, MA

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

Eduardo Portela de Oliveira, M.D.

Ottawa Hospital Research Institute OHRI uOttawa Brain and Mind Research Institute Ottawa, ON Canada

Paulo Puac Polanco, M.D., MS.c.

McMaster University St. Joseph's Healthcare Hamilton Hamilton, Ontario, Canada

Prashant Raghavan, MBBS

University of Maryland School of Medicine Baltimore, MD

Tanya J. Rath, M.D.

Mayo Clinic College of Medicine Phoenix, AZ

Brian P. Rigney, M.D.

Icahn School of Medicine at Mount Sinai New York, NY

Tanvir Rizvi, MBBS, M.D., DM

University of Virginia Health, Charlottesville, VA

Caroline D. Robson, MBChB

Boston Children's Hospital Boston, MA

Osamu Sakai, M.D., Ph.D., FACR

Boston Medical Center, Boston University School of Medicine Boston, MA

Dipanka Sarma, M.D.

University of Toronto Toronto, Ontario, Canada

Michael H. Schecht, M.D.

Icahn School of Medicine at Mount Sinai New York, NY

J. Eric Schmitt, M.D., Ph.D.

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

Erin Simon Schwartz, M.D., F.A.C.R.

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

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 New York, NY

Karuna V. Shekdar, M.D.

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

Bruno P. Soares, M.D.

University of Vermont Burlington, VT

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., M.S.

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

Jared M. Steinklein, M.D.

Donald and Barbara Zucker School of Medicine at Hofstra-Northwell Lenox Hill Hospital New York, NY

Sara B. Strauss, M.D.

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

Lawrence N. Tanenbaum, M.D., FACR

RadNet, Inc. New York, NY

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

A. John Tsiouris, M.D.

Weill Cornell Medicine New York-Presbyterian Hospital New York, NY

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

Memorial Sloan Kettering Cancer Center New York, NY

J. Thomas Vaughan, Ph.D.

Vagelos College of Physicians and Surgeons Columbia University New York, NY

Bruce A. Wasserman, M.D.

University of Maryland School of Medicine University of Maryland Medical Center Johns Hopkins School of Medicine Baltimore, MD

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

Robert J. Young, M.D.

Memorial Sloan Kettering Cancer Center New York, NY

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

University of North Carolina Chapel Hill, NC

Registration Information

34th Annual Meeting of

■ Medical Student

The Eastern Neuroradiological Society

ENRS22

PRICING IN-PERSON ATTENDEES

ENRS Member	\$475 ^{.00}
Non-Member	\$795.00
Members-in-Training	\$300.00
□ Resident □ Fellow	

HYBRID PRICING

ENRS Member	\$475
Non-Member	\$695
Members-in-Training ☐ Resident ☐ Fellow ☐ Medical Student	\$200
Int'l Attendees(excludes North America)	\$200
Low GBD Countries	\$100

WELCOME RECEPTION • THURSDAY, AUGUST 18, 2022

☐ Yes, I plan to attend the Welcome ReceptionFREE

GALA DINNER • SATURDAY, AUGUST 20, 2022

- ☐ Yes, I plan to attend the Gala Dinner (Attendee)......\$75.00
- ☐ Yes, I plan to have a guest attend
 - □ Guest / Spouse Dinner Fee.....\$120⁰⁰
 - □ Children under 12 years of age.....\$25.00

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WE ACCEPT









CANCELLATIONS: Requests for refund of registration fees, less a \$75.00 administrative fee, will be made to those providing written notification of cancellation by July 18, 2022. After that date, there will be no refunds given for cancellations. Please email notice of cancellation to: cancel@edusymp.com or fax to 813-806-1001.

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Hilton Burlington Lake Champlain

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Group Room Rates Start At\$259.00 nt.

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HOTEL TAX:

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HOTEL CUT-OFF DATE: Sunday, July 17, 2022

(group rates 3 days prior/post – space available basis)

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DEPOSIT POLICY:

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