



30th Annual Meeting of

The Eastern Neuroradiological Society

August 23 - 26, 2018

Fairmont Southampton, Bermuda • Hamilton, Bermuda

SAM Credit Available

26.0 AMA PRA Category 1 Credit(s)TM

For more information, visit www.enrs.org



From The Program Chair

Mark your calendar now for the *30th Annual Meeting* of the Eastern Neuroradiological Society (ENRS), August 23-26, 2018. This is a wonderful opportunity to bring family, join peers, learn and socialize at the luxurious Fairmont Southampton Bermuda Resort, the site of America's Cup in 2017, located on the stunning Bermuda south shore with miles of pink sand beaches and its exclusive beach club resort.

For history buffs, forty years ago, Bermuda was the site of the *15th Annual Meeting* of the American Society of Neuroradiology, March 27-31, 1977, hosted by one of the ASNR founding members, Dr. Norman E. Leeds, an honored guest, presenting the award in his name, The *Norman E. Leeds* award for the best Scientific Presentation.

The 2018 program maximizes learning from phenomenal speakers in our society with focused 20-minute block lectures, 4 SAMS and updates from rising junior faculty and scientific paper sessions. Each day is focused on topics in Brain, Head and Neck, Pediatrics, Spine and Neurointerventional, with Lunch & Learn Sessions. Competitive juices will be stimulated, by the challenging and enjoyable "Stump the Stars" Jeopardy Game Show!

The collegial, charming and relaxed atmosphere of Bermuda is a perfect opportunity to enjoy brilliance, brains and beaches, sharing knowledge and reconnecting with old friends and family and making new friends. The timing in August allows an enjoyable break prior to the Labor Day holiday and start of the school year. Bermuda is less than a two-hour flight from most eastern cities, and about a 55-minute plane ride from New York City. The Fairmont Southampton, is a beach paradise on nearly 100 acres, with spacious guestrooms many with private balconies and spectacular water views. There are unparalleled amenities from the kid's camp, resort pools, oceanfront beach club dive center, tennis courts, 18-hole golf course, and activities including deep sea fishing.

The ENRS is a favorite meeting of many, myself included, where all can learn, share knowledge and ideas in a friendly wonderful environment. I would like to take this opportunity to thank the many outstanding members of our Executive Committee who gave me invaluable advice and help, the many fabulous speakers and moderators who agreed to participate, our generous sponsors, Ken Cammarata from the ASNR, and Bethany Satter from ESI for their tireless efforts and priceless assistance.

All of us look forward to welcoming everyone to Bermuda for the ENRS *30th Annual Meeting*. As Mark Twain once said, "You can go to heaven if you want. I'd rather stay in Bermuda."

Best Regards,

Claudia F.E. Kirsch, MD

Vice President / President Elect and Program Chair

Target Audience

The ENRS *30th Annual Meeting* is targeted to both academic and private practice neuroradiologists, including trainees in the Northeast United States and Canada. Those with an interest in imaging and neurointervention in diseases of the brain, spinal cord, skull base and head and neck in both pediatric and adult patients. The meeting is equally targeted to physicians in training including both residents and fellows pursuing careers in radiology.

Accreditation

Physicians: This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint providership of Educational Symposia and the Eastern Neuroradiological Society. Educational Symposia is accredited by the ACCME to provide continuing medical education for physicians.

Educational Symposia designates this live activity for a maximum of 26.0 *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:

- Explain stroke imaging etiologies including hemorrhagic, embolic and vessel dissections, or stroke predictors from subarachnoid hemorrhage, and how MRI, perfusion imaging and arterial spin labeling are utilized in stroke assessment.
- Demonstrate improved knowledge regarding brain neoplasms and how perfusion, functional imaging and radiogenomics are utilized in pre-operative assessment of brain tumors.
- Differentiate and explain demyelination and radiographic mimics, CNS infections, and inflammatory neurologic conditions including IgG4, and the use of biomarkers in degenerative brain disease, and the utilization of conventional imaging techniques and newer imaging techniques.
- Demonstrate greater awareness of pathology and imaging strategies for assessment of the anterior, middle and posterior skull base including the sella turcica and pituitary and cranial nerves.
- Discuss the important radiographic techniques and findings for disease of the orbit, temporal bone, sinonasal cavities, oral cavity and oropharynx, larynx, thoracic inlet, and salivary tissues, and important findings that need to be carefully assessed for such as perineural tumoral spread, lymphadenopathy, post-surgical flaps, and key findings that may be overlooked and missed.
- Explain current and advanced imaging protocols for neonates and children of pathology associated with congenital abnormalities, phakomatosis, tumor, infection and trauma that may affect the orbit and temporal bone, CSF flow, including trauma and emerging techniques in imaging for traumatic brain injury.
- Explain the importance of gray matter versus white matter pathology in the spinal cord, and imaging of spinal neoplasms, trauma and post-operative critical radiographic findings, with note made to utilization of the proper nomenclature for disc disease.
- Describe the work-up and imaging findings for vertebroplasty, and optimizing vascular imaging of the spine and for vascular imaging in the treatment of aneurysm and new developments in intra-arterial chemotherapy.

No special educational preparation is required for this CME activity.

SPECIAL NOTE FOR THE DISABLED:

Educational Symposia (ESI) and the Eastern Neuroradiological Society (ENRS) wish to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently from other individuals because of the absence of auxiliary aids and services. If you need any auxiliary aids or services identified in the Americans with Disabilities Act, please contact ESI at (813) 806-1000.



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SPINE:

Amish H. Doshi, M.D.

Associate Professor at Mount Sinai School of Medicine
New York, NY

SCIENTIFIC PRESENTATIONS:

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

Chinthaka (Chris) Heyn BSc, Ph.D., M.D., FRCPC

Assistant Professor
Department of Medical Imaging
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PRESENTATION - AWARDS COMMITTEE:

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Assistant Professor Radiology, Northwell Health
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ENRS Abstract Submission: Deadline for abstract submissions June 4, 2018

Abstracts will be accepted for oral presentation in 2 categories: (1) Scientific Oral Presentation or (2) Excerpta Extraordinaire (brief presentation of interesting, educational case reports). Submissions are welcome in all major categories in neuroradiology. Authors will be notified by mid-June. Authors of accepted abstracts will be required to register for the meeting and pay the meeting registration fee.

Interested candidates should submit abstract(s) accompanied by a completed abstract submission form electronically to:

Doris D. M. Lin, M.D., Ph.D. at ddmlin@jhni.edu and to Chinthaka (Chris) Heyn, M.D., Ph.D., FRCPC at chris.heyn@utoronto.ca.

Visit <http://www.edusymp.com/esi/2018/ENRS18/CallforAbstracts2018.pdf> to access the submission form.

DISCLAIMER: Educational Symposia (ESI) and the Eastern Neuroradiological Society (ENRS) as planners and presenters of this meeting, and Professional Travel as the official travel agency for this meeting, claim no liability for the acts of any suppliers or the safety of any attendees while in transit to, from, or during, this event or any optional activities. The total amount of liability, if any, for the meeting organizers is limited to a refund of the registration fee, and Professional Travel's responsibility is limited to that of an agent.

Program Schedule

Thursday, August 23, 2018

8:00 AM Meeting Registration

9:20 – 9:30 Introduction and Welcome
Claudia F.E. Kirsch, MD

BRAIN STROKE - VESSELS

Moderators: Oluwatoyin R. Idowu, MD and Rona F. Woldenberg, MD

9:30 – 9:50 Stroke Imaging and Recommendation
Pina C. Sanelli, MD, MPH, FACP

9:50 – 10:10 Assessment of Hemorrhagic Stroke Is No Joke
Clifford J. Eskey, MD, PhD

10:10 – 10:30 The Many Reasons Why There Are Cerebral Emboli
Carlos H. Torres, MD, FRCPC

10:30 – 10:50 Perfusion/Arterial Spin Labelling MRI in Stroke
Pamela W. Schaefer, MD

SAM SESSION

10:50 – 11:20 Name That Tract - Understanding Tractography
Steven G. Imbesi, MD

11:20 – 11:50 Stroke Assessment- The Role of MRI
Kambiz Nael, MD

11:50 – 12:00 PM Brief Update - Stroke Predictors in SAH
Jana Ivanidze, MD

12:15 – 1:15 Lunch & Learn Session or Lunch on Your Own

BRAIN TUMORS

Moderators: Marinos Kontzialis, MD, and David M. Yousem, MD, MBA

1:30 – 1:50 Neoplasm or Not
Jacqueline A. Bello, MD, FACP

1:50 – 2:10 The Importance of Using, DSC Perfusion or How DSC Users Distinguish Brain Tumor
Girish M. Fatterpekar, MBBS, DNB, MD

2:10 – 2:30 Pre-operative Brain Tumor fMRI – The How and Why
Andrei I. Holodny, MD

2:30 – 2:40 Mapping Brain Circuits and Brain Response on Patients with DBS
Walter Kucharczyk, MD, FRCP(C)

2:40 – 3:00 Radiogenomic Mapping of Brain Tumors
Rivka R. Colen, MD

3:00 – 3:20 Update on Task Free fMRI – Why It's Time to Try!
Behroze Adi Vachha, MD, PhD

3:20 – 3:30 DIPG – Pontine Gliomas – Brief Imaging Update
Sofia S. Haque, MD

3:30 – 3:45 Refreshment Break and Visit Technical Exhibits

DEMYELINATION/DEGENERATION/NOVEL IMAGING TECHNOLOGIES

Moderators: Jacqueline A. Bello, MD, FACP and Marlise dos Santos, MD, MSc, FRCPC

3:45 – 4:05 Imaging Patterns of Multiple Sclerosis and its Mimics
Reza Forghani, MD, PhD

4:05 – 4:25 Let's Get Functional - Use of fMRI as Biomarkers in Disease Such as Alzheimer's
Jeffrey R. Petrella, MD

4:25 – 4:45 MR Neurography Some Lessons Learned
Ronald L. Wolf, MD, PhD

4:45 – 5:05 Radiology 4.0 in Neuroimaging - Artificial Intelligence and the Rise of the Machines
Christopher G. Filippi, MD

5:05 – 5:15 Radiographic Detection of CNS Infection
Doris D.M. Lin, MD, PhD

5:15 – 5:25 I Want to Know More About IgG4
Marie-Constance Lacasse, MD

5:25 End of Session

5:25 – 5:55 Scientific Paper Session #1 ♦

Moderators & Evaluators: Eric Grief, MD, Chinthaka (Chris) Heyn, MD, Alan A. Johnson, MD, Amy W. Lin, MD, Doris D.M. Lin, MD, PhD, and Ali Noor, MD

6:30 – 8:00 Welcome Reception

Friday, August 24, 2018

7:00 – 7:45 AM Continental Breakfast for Registrants and Visit Technical Exhibits

SKULL BASE AND CRANIAL NERVES

Moderators: Peter Assad, MD, MPH, MB and Luciano Prevedello, MD, MPH

7:45 – 8:05 Imaging of Skull Base Cranial Nerves IX-XII
Nafi Aygun, MD

8:05 – 8:25 Anterior Skull Base - The CSF Leak, Where to Look and Seek
C. Douglas Phillips, MD, FACP

8:25 – 8:45 Imaging Pearls and Pitfalls of the Central Skull Base and CVJ
Kevan Shifteh, MD

8:45 – 9:05 Pediatric Skull Base & Craniocervical Junction Pathology
Karen K. Moeller, MD

9:05 – 9:25 Posterior Skull Base Anatomy and Pathology
Daniel J. Boulter, MD

9:25 – 9:40 Refreshment Break and Visit Technical Exhibits

EYES, EARS AND GLANDS

Moderators: Daniel J. Boulter, MD and Rebecca S. Cornelius, MD, FACP

SAM SESSION

9:40 – 10:05 Orbital Imaging
Amy Fan-Yee Juliano, MD

10:05 – 10:30 Temporal Bone Anatomy
Hillary R. Kelly, MD

10:30 – 10:55 Temporal Bone Imaging - Looking Through The Third Window
Ashok Srinivasan, MD

10:55 – 11:15 Temporal Bone Imaging – Non-infectious Pathology
Hugh D. Curtin, MD, FACP

11:15 – 11:35 Stand By Your Gland – Radiographic Assessment of Salivary Anatomy and Pathology
Kristine M. Mosier, DMD, PhD

11:35 – 11:55 Laryngeal Cancer - Imaging Pearls and Pitfalls
Hilda E. Stambuk, MD

12:10 – 1:10 PM Lunch & Learn Session or Lunch on Your Own

HEAD AND NECK - ORAL CAVITY, NOSE & THROAT

Moderators: Tanya J. Rath, MD and Barry A. Shpizner, MD

1:25 – 1:45 Sink Your Teeth Into This - A Review of Dental and Jaw Pathology
James J. Abrahams, MD

1:45 – 2:05 Oral Cavity and Oropharyngeal Cancer
Eugene Yu, MD, FRCPC

2:05 – 2:25 Imaging Nerves with MRI Neurography
Xuan V. Nguyen, MD, PhD

2:25 – 2:45 You've Got a Lot of Nerve! Correlation of Histopathology With Radiology in Oral Cancers
Ashleigh Briody, DDS, MS

2:45 – 3:05 Radiographic Detection of Sinonasal Inflammation and Infection
Mari Hagiwara, MD

3:05 – 3:25 Update on Malignant Sinonasal Tumors: New Diagnoses and Imaging Techniques
Deborah R. Shatzkes, MD

3:25 – 3:40 Refreshment Break and Visit Technical Exhibits

HEAD AND NECK - TUMORS, NODES, GLANDS AND ROADS TO IMPROVEMENT

Moderators: Kristen Lloyd Baugnon, MD and Xuan V. Nguyen, MD, PhD

3:40 – 4:00 The Truth Be Told – What Does it Mean When Tumor is Beyond the Node - Lymphadenopathy and Extracapsular Spread Update!
Peter M. Som, MD, FACP, FRCR

4:00 – 4:20 When Do I Get- the Follow Up PET? PET-CT Utilization in Head and Neck Cancer
Tanya J. Rath, MD

4:20 – 4:40 Head and Neck Reconstruction Flaps – The Flap on Flaps!
Amanda S. Corey, MD, FACP

4:40 – 5:00 What'd I Miss! Missed Findings in Head and Neck Imaging!
Philip R. Chapman, MD

5:00 – 5:20 What'd I Miss - Missfindings in PET CT Imaging!
Elcin Zan, MD

5:20 – 5:40 Steps in Climbing the Academic Ladder to Success
Christopher J. Palestro, M.D., FSNMMI

5:40 End of Session

5:40 – 6:00 ENRS Annual Business Meeting (ENRS Members Only) ♦

Saturday, August 25, 2018**7:00 – 7:35 AM Continental Breakfast for Registrants and Visit Technical Exhibits****7:05 – 7:35 Scientific Paper Session #2 ♦**

Moderators & Evaluators: Eric Grief, MD, Chinthaka (Chris) Heyn, MD, Alan A. Johnson, MD, Amy W. Lin, MD, Doris D.M. Lin, MD, PhD, and Ali Noor, MD

PEDIATRIC HEAD AND NECK

Moderators: Maria J. Borja Angulo, MD and Korgun Koral, MD

7:35 – 7:55 What Can We See – in Pediatric Orbital Pathology

Gul Moonis, MBBS

7:55 – 8:15 Congenital Pediatric Hearing Loss

Caroline D. Robson, MB, ChB

8:15 – 8:35 Fetal MRI – Learning The Neuroimaging Basics

Beth Kline-Fath, MD, FAIUM

SAM SESSION**8:35 – 9:05 You Must Know This – About Pediatric CNS Phakomatosis**

Mai-Lan Ho, MD

9:05 – 9:35 Non-accidental Injury and The Pediatric CNS

Bruno P. Soares, MD

9:35 – 9:55 Emerging Tools for Traumatic Brain Injury Research

Jill V. Hunter, MD

9:55 – 10:10 Refreshment Break and Visit Technical Exhibits**PEDIATRIC HEAD AND NECK - EMBRYOLOGIC CONGENITAL ABNORMALITIES**

Moderators: Maria J. Borja Angulo, MD and Korgun Koral, MD

10:10 – 10:30 MACRA- What It Means for Neuroradiologists

Joshua A. Hirsch, MD, FRCR, FSIR

10:30 – 10:50 When Things Are Not Fine - In the Congenital Spine - Congenital Spinal Anomalies

Puneet S. Pawha, MD

10:50 – 11:10 Pediatric Cystic Neck Masses

Karuna V. Shekdar, MD

11:10 – 11:30 Pituitary Gland Embryology and Related Lesions

Mauricio Castillo, MD, FRCR

PEDIATRIC IMAGING II

Moderators: Jane Ari Lee, MD and Yvonne W. Lui, MD

SAM SESSION - PEDIATRIC BRAIN**11:30 – 12:00 PM Evaluating Epilepsy - Imaging of Pediatric and Adult Epilepsy**

Erin Simon Schwartz, MD, FRCR

12:00 – 12:30 Following Pediatric Brain Tumors – False Positive vs. Recurrence

Korgun Koral, MD

12:45 – 1:45 Lunch & Learn Session or Lunch on Your Own**SPINE SESSION I**

Moderators: Amna A. Ajam, MD and Amish H. Doshi, MD

2:00 – 2:20 Pediatric Spine Tumors

Aylin Tekes, MD

2:20 – 2:40 "Oh, the Places You Flow" Normal and Pathologic CSF Flow and Development

Alireza Radmanesh, MD

2:40 – 3:00 Imaging in Pediatric Demyelination

Manohar Shroff, MD, FRCPC

3:00 – 3:05 A Brief Update - The Extended Spine Sign! A Marker for Pleural Effusion

Anna Derman, MD

3:05 – 3:20 Refreshment Break and Visit Technical Exhibits**Saturday, August 25, 2018 (continued)****SPINE SESSION II**

Moderators: Bidyut K. Pramanik, MD and Elcin Zan, MD

3:20 – 3:40 Why Spinal Cord Gray and White Matter Matter! A Review of Non-neoplastic Spinal Cord Pathologies

Carlos H. Torres, MD, FRCPC

3:40 – 4:00 Make the Case! Unknown Interactive Spine & Skull Base

Laurie A. Loevner, MD

4:00 – 4:20 Cervical Spine Trauma: A Classification Update

Harprit S. Bedi, MD

4:20 – 4:40 How Do I Describe This Disk – Current Updates on Lumbar Disc Nomenclature

Gordon K. Sze, MD, FRCR

4:40 – 5:00 Spine Infection Detection – The Role of The Radiologist

Amish H. Doshi, MD

5:00 – 6:00 Stump The Stars – Jeopardy Game Show

Justin Brucker, MD & Laurent Letourneau-Guillon, MD

6:00 End of Session**6:30 – 9:00 Closing Reception and Dinner**

Presentation of the Norman E. Leeds, Steven A. Kieffer and Robert D. Zimmerman Awards - Norman E. Leeds, MD

Sunday, August 26, 2018**7:00 – 8:00 AM Continental Breakfast for Registrants and Visit Technical Exhibits****7:30 – 8:00 Scientific Paper Session #3 ♦**

Moderators & Evaluators: Eric Grief, MD, Chinthaka (Chris) Heyn, MD, PhD, FRCPC, Alan A. Johnson, MD, Amy W. Lin, MD, Doris D.M. Lin, MD, PhD, and Ali Noor, MD

SPINE - NEUROINTERVENTIONAL/ EMERGENCY

Moderators: Allan L. Brook, MD, FSIR and Gregg H. Zoarski, MD

8:00 – 8:20 What Do I Need to Find in the Post-Operative Spine

A. Orlando Ortiz, MD, MBA, FRCR

8:20 – 8:40 Post-op Spine Imaging With a Focus on Complications

William A. Mehan, Jr., MD, MBA

8:40 – 9:00 MRI Spinal Perfusion in Spinal Metastasis

Sasan Karimi, MD

9:00 – 9:20 When It's Fine to Put Stuff in the Spine - New Evidence for Vertebroplasty

Eric C. Bourekas, MD, MBA, FRCR

9:20 – 9:40 How Do I Find The Vascular Lesion in The Spine Optimizing Spinal Vascular Imaging

Michele H. Johnson, MD, FRCR, FASER

9:40 – 9:55 Refreshment Break and Visit Technical Exhibits**9:55 – 10:15 Coil, Stent or Diversion of Flow- How Do I Know?**

Donatella Tampieri, MD, FRCPC

10:15 – 10:35 Do We Know When it is Going to Blow? - Growth and Rupture Risk of Small Intracranial Aneurysms

Ajay Malhotra, MBBS, MD

10:35 – 10:55 Sussing Out Subarachnoid Hemorrhage- An Update on SAH

Sapna Rawal, MD, FRCPC

10:55 – 11:15 What Test is Best for the Treated Aneurysm?

Marlise das Santos, MD, MSc, FRCPC

11:15 – 11:35 Brain Malformations Road to Discovery

Thierry A.G.M. Huisman, MD, EQN, FICIS

11:35 – 11:45 Closing Comments

Claudia F.E. Kirsch, MD

11:45 End of Meeting

Invited Faculty

James J. Abrahams, M.D.
Yale University School of Medicine

Amna A. Ajam, M.D.
The Ohio State University Medical Center

Jane Ari Lee, M.D.
Lenox Hill Hospital Northwell Health

Peter Assaad, M.D., MPH, MB
Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

Nafi Aygun, M.D.
Johns Hopkins University

Kristen Lloyd Baugnon, M.D.
Emory University School of Medicine

Harprit S. Bedi, M.D.
Tufts University School of Medicine

Jacqueline A. Bello, M.D., FACP
Montefiore Medical Center

Maria J. Borja Angulo, M.D.
NYU School of Medicine

Daniel J. Boulter, M.D.
The Ohio State University Wexner Medical Center

Eric C. Bourekas, M.D., MBA, FACP
The Ohio State University Wexner Medical Center

Ashleigh Briody, DDS, MS
Central Ohio Skin & Cancer, Inc

Allan L. Brook, M.D., FSIR
Montefiore Medical Center

Justin Brucker, M.D.
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Mauricio Castillo, M.D., FACP
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Philip R. Chapman, M.D.
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Rivka R. Colen, M.D.
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Amanda S. Corey, M.D., FACP
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Rebecca S. Cornelius, M.D., FACP
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Hugh D. Curtin, M.D., FACP
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Anna Derman, M.D.
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Christopher G. Filippi, M.D.
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Reza Forghani, M.D., Ph.D.
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Eric Grief, M.D.
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Mari Hagiwara, M.D.
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Sofia S. Haque, M.D.
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Andrei I. Holodny, M.D.
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Oluwatoyin R. Idowu, M.D.
Johns Hopkins

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Jana Ivanidze, M.D.
Cornell

Alan A. Johnson, MD
Long Island Jewish Medical Center

Michele H. Johnson, M.D., FACP, FASER
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Amy Fan-Yee Juliano, M.D.
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Sasan Karimi, M.D.
Memorial Sloan-Kettering Cancer Center

Hillary R. Kelly, M.D.
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Hofstra Northwell School of Medicine

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Korgun Koral, M.D.
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Walter Kucharczyk, M.D., FRCP
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Marie-Constance Lacasse, M.D.
University of Sherbrooke

Norman E. Leeds, M.D.
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ENRS18

A late fee of \$75 will be added to any registration postmarked after **July 23, 2018**.

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