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2nd Annual Meeting of the

AMERICAN SOCIETY OF

PEDIATRIC NEURORADIOLOGY

January 10 – 12, 2020 • Eden Roc Miami Beach • Miami Beach, FL

UP TO 8 SAM CREDITS AVAILABLE

19.5 AMA PRA Category 1 Credit(s)TM

For more information, visit ASPNR.edusymp.com or
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Call For Abstracts at www.aspnr.org

Deadline: September 23, 2019

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FROM THE PROGRAM CHAIR

It is my great pleasure to invite you to the American Society of Pediatric Neuroradiology's (ASPNR) 2nd Annual Meeting, which will be held at the Eden Roc Miami Beach in Miami Beach, FL. from Friday, January 10 to Sunday, January 12, 2020. This educationally stimulating, energized, jam-packed program is designed to keep you on your toes and up to date with all things pediatric neuroradiology. And no place better to do it in the depth of winter than oceanfront in lively Miami Beach, the warmest place in the continental USA in the month of January. Expect to hear a broad range of basic core lectures and specialized talks from expert speakers on pediatric advanced neuroimaging, technological imaging and treatment advances, metabolic, fetal, perinatal, developmental, epilepsy, tumor, demyelinating, and spine disorders while being updated on recent scientific advances through oral and poster presentations. This course offers a total of up to 19.5 *AMA PRA Category 1 Credits (s)*TM and up to 8 SAM Credits Available in 2.5 Days.

This year's program includes:

- 2.5 days of dedicated pediatric neuroradiology instruction
- Expert lectures by leaders in the field supplemented by case presentations
- Scientific sessions as well as scientific and educational exhibits
- A full slate of social events including:
 - Friday night cocktail reception
 - Saturday night Gala dinner on a beautiful yacht cruise on Biscayne Bay
 - Pre-meeting Art tour of Miami
- Opportunities to connect with industry collaborators regarding the latest and best in technology in pediatric neuroimaging and pediatric CNS treatment advancements
- Significantly discounted hotel rates at the iconic beachfront Eden Roc Miami Beach with resort fees waived, hotel rates honored 3 days before and 3 days after meeting dates, based on availability on a first-come, first-served basis

Please join us at the ASPNR's 2nd Annual Meeting in Miami, January 10-12, 2020 for an excellent educational experience where you will learn about pediatric neuroradiology, exchange ideas, catch up with friends, start projects, collaborate and engage. This meeting will thaw you out of deep winter. Come early and stay a little longer and enjoy the rhythms of Miami!

V. Michelle Silvera, M.D.

Mayo Clinic, Rochester

PROGRAM COMMITTEE

V. Michelle Silvera, M.D.
Program Chair

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

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Paul A. Caruso, M.D.

Laurence J. Eckel, M.D.

Julie Guerin, M.D.

Laura L. Hayes, MD, FAAP

Mark D. Mamlouk, M.D.

Susan Palasis, M.D.

Aylin Tekes, M.D.

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

EXECUTIVE COMMITTEE 2019 - 2020

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TARGET AUDIENCE

- General neuroradiologists and pediatric radiologists who want to expand their fund of knowledge in pediatric neuroimaging and stay abreast of new developments.
- Pediatric neuroradiologists who want to learn more about current issues and advances in the field.
- General radiologists seeking to improve their understanding and skills in pediatric neuroimaging.
- Non-radiologists who are interested in understanding neuroimaging perspectives of pediatric neurologic disease in the head, neck, and spine.
- Allied health professionals, medical physicists, and medical researchers interested in learning more about the practical aspects of pediatric neuroimaging and emerging research.
- Physicians-in-training, residents, and fellows interested in pediatric neuroradiology.

EDUCATIONAL OBJECTIVES

At the completion of the meeting, attendees should:

- Identify commonly encountered brain, neck, and spine disorders in children.
- Explain the normal maturational changes of the developing central nervous system from the fetus through childhood.
- Describe the diagnostic nuances of pediatric demyelinating conditions and its manifestations within the brain and spinal cord.
- Know the current imaging approach to children with epilepsy and the prognostic significance of imaging abnormalities of the brain.
- Describe emerging considerations to diagnosis, assessment and treatment of metabolic disease in children.
- Know what new and advanced neuroimaging techniques are available in the clinical and research setting.
- Discuss how artificial intelligence and machine learning are being incorporated into diagnostic neuroimaging as part of precision medicine in the pediatric setting.
- Recognize neuroimaging abnormalities related to neonatal encephalopathy.
- Identify the changes to the diagnosis and nomenclature of pediatric neurological disease processes as a result in advances in molecular genetics.

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 American Society of Pediatric Neuroradiology. Educational Symposia is accredited by the ACCME to provide continuing medical education for physicians.

Educational Symposia designates this live activity for a maximum of 19.5 *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.

DISCLAIMER: Educational Symposia (ESI) and the American Society of Pediatric Neuroradiology (ASPNR) 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

FRIDAY, JANUARY 10, 2020

7:00 – 7:45 AM Registration, Continental Breakfast for Registrants, Visit Exhibits and Scientific Posters

7:45 – 7:50 Welcome Remarks
V. Michelle Silvera, M.D.

SESSION 1: Developmental CNS Disorders

Moderators: Judith A. Gadda, D.O., MBA; Gaurav Saigal, M.D.; Jason N. Wright, M.D.

SAM SESSION

7:50 – 8:15 Pre- and Postnatal Diagnosis of Holoprosencephaly
Louis-Gilbert Vezina, M.D.

8:15 – 8:30 Phakomatoses
Julie Guerin, M.D.

8:30 – 8:45 The Wide Spectrum of Tubulinopathies
Chang Y. Ho, M.D.

8:45 – 9:00 Genetic Syndromes Associated with Childhood Overgrowth
Mark D. Mamlouk, M.D.

9:00 – 9:15 Diagnosing the Cleft Lip and Palate
Judy A. Estroff, M.D.

9:15 – 9:35 Rapid Fire - Developmental CNS Disorders
Susan Palasis, M.D.

9:35 – 9:55 Scientific Oral Presentations I

9:55 – 10:05 Refreshment Break for Registrants Visit Exhibits and Scientific Posters

SESSION 2: Early Acquired Brain Disorders

Moderators: Karen K. Moeller, M.D.; Maura E. Ryan, M.D.; Urmi Udayasankar, M.D.

10:05 – 10:25 Patterns of Hypoxic-Ischemic Brain Injury in the Term Neonate
Bruno P. Soares, M.D.

10:25 – 10:40 Translating Neonatal Head Ultrasound Findings to MRI in Neonatal Injury
Aylin Tekes, M.D.

10:40 – 10:55 Congenital Infections
Dorothy Bulas, M.D.

10:55 – 11:10 Perinatal Ischemic Stroke - Cause and Outcome
Nicholas V. Stence, M.D.

11:10 – 11:25 Perinatal Metabolic Disease
Matthew T. Whitehead, M.D.

11:25 – 11:45 Rapid Fire Carousel - Early Acquired Brain Disorders
Karen Buch, M.D.; Chiara Carducci, M.D.; Felice D'Arco, M.D.; Neil Lall, M.D.; Yi Li, M.D.

11:45 – 12:00 PM Scientific Oral Presentations II

12:15 – 1:00 Lunch and Learn (TBD) ♦

1:00 – 1:20 Gold Medal Award, Presentation and Lecture ♦

SESSION 3: Advanced Pediatric Neuroimaging

Moderators: Nolan R. Altman, M.D.; Birgit Ertl-Wagner, M.D.; Jeffrey H. Miller, M.D.

1:20 – 1:40 Clinical Applications of 3D Printing in Children
Jonathan M. Morris, M.D.

1:40 – 1:55 Arterial Spin Labelling in Clinical Practice
Arastoo Vossough, M.D., Ph.D.

1:55 – 2:10 fMRI in Children
Mohit Mabeshwari, MBBS, M.D.

2:10 – 2:25 White Matter Microstructure
Pratik Mukherjee, M.D., Ph.D.

2:25 – 2:40 DTI in Congenital Malformations
Nancy K. Rollins, M.D.

2:40 – 3:00 Rapid Fire - Advanced Imaging
Aashim Bhatia, M.D., M.S.

FRIDAY, JANUARY 10, 2020 (CONTINUED)

SESSION 3: Advanced Pediatric Neuroimaging (Continued)

3:00 – 3:20 **ASPNN Research Award Recipients - A Look Back**
Moderator: Orit A. Glenn, M.D.

2016: *Avner Meoded, M.D. on behalf of Andrea Poretti, M.D.: The Structural Connectome of the Human Brain in Children with Tuberos Sclerosis Complex*

2017: *Kristen W. Yeom, M.D.: Radiogenomic Approaches to Non-Invasive Molecular Subtyping of Pediatric Posterior Fossa Ependymomas*

2018: *Benita Tamrazi, M.D.: Imaging Genomics of Pediatric Rhabdoid Tumors of the Brain: Identification of Prognostically Significant Metabolic Subgroups Using InVivo 1H-MR Spectroscopy*

3:20 – 3:35 Refreshment Break for Registrants Visit Exhibits and Scientific Posters

SESSION 4: Childhood Epilepsy

Moderators: L. Santiago Medina, M.D.; Rupa Radhakrishnan, M.D., MBBS, M.S.; Karuna V. Shekdar, M.D.

3:35 – 3:55 Pediatric Epilepsy: What to Look for
Erin Simon Schwartz, M.D., FACR

3:55 – 4:10 Preoperative Advanced Imaging in Childhood Epilepsy
James L. Leach, M.D.

4:10 – 4:25 Outcomes of Pediatric Epilepsy Surgery
Michael J. Paldino, M.D.

4:25 – 4:45 Rapid Fire - Childhood Epilepsy
Nilesh K. Desai, M.D.

4:45 – 5:15 Creativity and the Brain
Phillip L. Pearl, M.D.

5:15 End of Session

5:30 – 6:30 Welcome Reception

SATURDAY, JANUARY 11, 2020

7:00 – 7:45 AM Registration, Continental Breakfast for Registrants, Visit Exhibits and Scientific Posters

7:45 – 7:50 **ASPNN 3rd Annual Meeting Announcement**
Timothy N. Booth, M.D., 2021 ASPNN Program Chair

SESSION 5: Pediatric Spine

Moderators: Michele H. Johnson, M.D., FACR, FASER; Jeremy Y. Jones, M.D.; John A. Maloney, M.D.

SAM SESSION

7:50 – 8:15 Keynote Speaker: Spinal Dysraphisms
Thomas P. Naidich, M.D., FACR

8:15 – 8:30 Pediatric Applications of DWI in Spine Imaging
Laura L. Hayes, M.D.

8:30 – 8:45 Manifestations and Treatment of Hereditary Hemorrhagic Telangiectasia in the Pediatric Spine
Waleed Brinjikji, M.D.

8:45 – 9:00 Acquired Craniocervical Anomalies (Non-tumoral)
Luke Linscott, M.D.

9:00 – 9:15 Update on Acute Flaccid Myelitis
David M. Mirsky, M.D.

9:15 – 9:35 Rapid Fire Carousel - Pediatric Spine
Tushar Chandra, M.D.; Ilana Neuberger, M.D.; William T. O'Brien, Sr., D.O., FAOCR; Anvita Pauranik, M.D.; Asha Sarma, M.D.

9:35 – 9:55 Scientific Oral Presentations III

9:55 – 10:05 Refreshment Break for Registrants Visit Exhibits and Scientific Posters

SATURDAY, JANUARY 11, 2020 (CONTINUED)

SESSION 6: Placenta and the Fetus

Moderators: Christopher Ian Cassidy, M.D., FRANZCR; Sarah Sarvis Milla, M.D., FAAP; Deborah M. Zarnow, M.D.

- 10:05 – 10:25 Placental Imaging and the Placenta-Brain Connection
P. Ellen Grant, M.D., MSc.
- 10:25 – 10:40 MRI of Acquired Fetal Brain Pathology
P.D. Griffiths, Ph.D., FRCR
- 10:40 – 10:55 Twin - Twin Transfusion, Imaging and Treatment
Beth Kline-Fath, M.D., FAIUM
- 10:55 – 11:10 Fetal Neck Anomalies
Jennifer A. Vaughn, M.D.
- 11:10 – 11:25 Fetal MRI: Lessons Learned from the Neonate
Orit A. Glenn, M.D.
- 11:25 – 11:45 Rapid Fire - Fetal Imaging
Edward Yang, M.D.
- 11:45 – 12:00 PM Scientific Oral Presentations IV

12:15 – 1:00 Lunch and Learn (TBD) ♦

1:00 – 1:30 ASPNR Business Meeting ♦

SESSION 7: Demyelinating and Autoimmune Processes in Children

Moderators: Amy R. Danehy, M.D.; Korgun Koral, M.D.; Leah Platenik Palifka, M.D., M.S.

SAM SESSION

- 1:30 – 1:35 Charles Raymond Fitz, M.D. Honorary Lecture Introduction
Ashok Panigrahy, M.D.
- 1:35 – 1:55 Charles Raymond Fitz, M.D. Honorary Lecture: Multiple Sclerosis in Children
Brenda Banwell, M.D., FRCPC, FAAN
- 1:55 – 2:10 ADEM and Lookalikes: Differentiating Features
Izlem Izbudak, M.D.
- 2:10 – 2:25 Pediatric Myelopathies
Jessie Aw-Zoretic, M.D.
- 2:25 – 2:40 Pediatric Inflammatory Disease of the Orbit
Timothy N. Booth, M.D.
- 2:40 – 2:55 Update on Pediatric Autoimmune Encephalitis
Manobar M. Shroff, M.D., FRCPC
- 2:55 – 3:15 Rapid Fire - Demyelinating and Autoimmune Processes
Sumit Pruthi, MBBS
- 3:15 – 3:35 Scientific Oral Presentations V

**3:35 – 3:50 Refreshment Break for Registrants
Visit Exhibits and Scientific Posters**

SESSION 8: International Session

Moderators: Pablo Picasso de Araujo Coimbra, M.D.; Fabrício Guimarães Gonçalves, M.D., EDiNR, EDiPNR; Nucharin (Tanya) Supakul, M.D.

- 3:50 – 4:10 Europe: Uncommon Brain Infections
Efychia Z. Kapsalaki, M.D.
- 4:10 – 4:30 South America: Epileptogenic Brain Tumors
Ximena Stecher, M.D.
- 4:30 – 4:50 Far East: Pediatric Head Injuries in Muay Thai Kick Boxing
Jiraporn Laothamatas, M.D.
- 4:50 – 5:10 Middle East: Posterior Fossa Anomalies in the Fetus
Ashley J. Robinson, M.D.
- 5:10 – 5:30 India: Non-tuberculous Infections in India - Current and Past Trends
Shrinivas Desai, M.D.

5:30 End of Session

7:00 Gala Dinner on Biscayne Bay Cruise

SUNDAY, JANUARY 12, 2020

**7:00 – 7:45 AM Registration, Continental Breakfast for Registrants,
Visit Exhibits and Scientific Posters**

**7:45 – 7:50 ASPNR 2019 Research Award, ASPNR 2019 Derek
Harwood Nash Award, ASNR 2019 MIT-E Scholarship
Pediatric Neuroradiology Award, 2020 ASPNR Meeting
Case of the Day Winners**

Laurence J. Eckel, M.D., ASPNR President

SESSION 9: Metabolic Disease

Moderators: Arabinda K. Choudhary, M.D.; Gary L. Hedlund, D.O.; Jonathan G. Murnick, M.D., Ph.D.

SAM SESSION

- 7:50 – 8:15 Leukodystrophies and the Pathological Evidence
Mariana Bugiani, M.D., Ph.D.
- 8:15 – 8:30 Approach to Metabolic Disease in Children
Susan I. Blaser, M.D., FRCPC(C)
- 8:30 – 8:45 Mitochondrial Disorders
Thierry A.G.M. Huisman, M.D., P.D., EDiNR, EDiPNR, FICIS
- 8:45 – 9:00 Modern Neurogenomics: Advances in Diagnosis and Therapy
Mai-Lan Ho, M.D.
- 9:00 – 9:15 Pearls and Pitfalls in the Imaging of Adrenoleukodystrophy
Paul A. Caruso, M.D.
- 9:15 – 9:35 Rapid Fire - Metabolic Disease
Sanjay P. Prabhhu, MBBS, FRCR
- 9:35 – 9:55 Scientific Oral Presentations VI

**9:55 – 10:05 Refreshment Break for Registrants
Visit Exhibits and Scientific Posters**

SESSION 10: Pediatric Brain Tumors

Moderators: Gordon D. Heller M.D.; Marvin D. Nelson, Jr., M.D., FACR; Dennis W. Shaw, M.D.

SAM SESSION

- 10:05 – 10:25 Update on Pediatric Embryonal Tumors
Tina Young Pousaint, M.D., FACR
- 10:25 – 10:40 Pediatric Brain Tumor Genomics Update: What You Should Know
Kshitij Mankad, MBBS
- 10:40 – 10:55 Pediatric Brainstem Tumors
Zoltan Patay, M.D., Ph.D.
- 10:55 – 11:10 Artificial Intelligence and Pediatric Brain Tumors
Kristen W. Yeom, M.D.
- 11:10 – 11:25 Optimizing MR Imaging in Diagnosing Spinal Drop Metastases
Stephen F. Kralik, M.D.
- 11:25 – 11:40 Brain Tumor Treatment-related Complications
Benita Tamrazi, M.D.
- 11:40 – 12:00 PM Rapid Fire - Pediatric Brain Tumors
Ashok Panigrahy, M.D.

12:00 End of Program

SPEAKERS AND MODERATORS

Nolan R. Altman, M.D.

Nicklaus Children's Hospital
Miami, FL

Jessie Aw-Zoretic, M.D.

Ann & Robert H. Lurie Children's Hospital
of Chicago
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Brenda Banwell, M.D., FRCPC, FAAN

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Timothy N. Booth, M.D.

Children's Health of Dallas
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Karen Buch, M.D.

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Dorothy Bulas, M.D.

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Orange, CA

Diana P. Rodriguez, M.D.

Nationwide Children's Hospital
Columbus, OH

REGISTRATION INFORMATION

2nd Annual Meeting of the American Society of

PEDIATRIC NEURORADIOLOGY

ASP^{NR}20

A late fee of \$75 will be added to any registration postmarked after **December 20, 2019**.

ASP^{NR} Member \$550⁰⁰ Non-Member \$725⁰⁰ Members-in-Training \$350⁰⁰
(Letter from Chairman or Fellowship Director required)

The Insider's Art Tour of Miami \$140 Per Person

Thursday, January 9, 2020 • 9:00 AM – 3:00 PM

Join us at this pre-event, where you will experience Miami's vibrant, energetic, cutting-edge art scene and complete the day with a delightful, late afternoon waterfront lunch.

Gala Dinner Cruise Registrant • \$50 Guest • \$75

Saturday, January 11, 2020 • 7:00 PM – 10:30 / 11:00 PM

The ASP^{NR} has planned a fun-filled Gala evening aboard a beautiful yacht with music and Floridian cuisine where you will cruise Miami's beautiful and scenic Biscayne Bay.

TOTAL ENCLOSED: \$ _____

4 Easy Ways To Register

We Accept



INTERNET
ASP^{NR}.Edusymp.com

MAIL

Check payable to:
ASP^{NR}

c/o Educational Symposia
5620 West Sligh Avenue
Tampa, Florida USA
33634-4490

FAX

(813) 806-1001

PHONE

(813) 806-1000

Name _____ Degree M.D. D.O. Ph.D. Other

Company / Institution _____

Address _____ City / State / Zip Code / Country

Phone _____ Email **(REQUIRED FOR ELECTRONIC SYLLABUS)**

Card Number / Card Type: Master Card Visa American Express Discover _____ Expiration Date _____ Security Code _____

Billing Address _____ City / State / Zip Code / Country

Cardholder Signature _____

CANCELLATIONS: Requests for refund of registration fees, less a \$75.00 administrative fee, will be made to those providing written notification of cancellation by December 20, 2019. After that date, there will be no refunds given for cancellations. Please email notice of cancellation to: registration@edusymp.com or fax to 813-806-1001.



SPACE IS LIMITED - RESERVE YOUR HOTEL ROOM TODAY:

Visit www.aspnr.org for meeting and accommodations information.

Call for Hotel Reservations: (305) 520-7407 and identify yourself as a registrant of American Society of Pediatric Neuroradiology (ASP^{NR}) to receive the group discounted room rate.

Hotel Cut-off Date: December 9, 2019

Group Room Rates Start At \$295.00 nt.

Hotel Tax: 14%

Resort Fee:

Waived. Guests still receive the resort fee amenities.

Parking:

\$48 for 5 hours - 24 hours. Rate is \$25 for 5 hours or less.

Deposit Policy:

A deposit of one-night room and tax is required at time of booking.

Cancellation Policy:

No cancellation penalty if cancellation is received by the Eden Roc Hotel at least 72 hours prior to arrival.

Check in time is: 4:00 PM; check out time is: 11:00 AM.

Hotel: 34525 Collins Avenue
Miami Beach, Florida 33140

Phone: (786) 801-6886

EDEN ROC MIAMI BEACH

About The Hotel

In the heart of the city at the edge of the sea, Eden Roc Miami Beach provides a modern, comfortable setting to relax and enjoy the view. The spacious rooms include oversized balconies overlooking the ocean or the city skyline, with three distinct pools, beachfront cabanas, award-winning on-site dining and contemporary design in a central location in the middle of Miami Beach.

At Eden Roc you can enjoy some of the best food in Miami Beach while feasting your eyes on the unbeatable views. Chef Helene Henderson delivers farm-to-table freshness with an ocean view at Malibu Farm, and at Nobu Miami, you will be treated to New Japanese-style cuisine known around the world.

How To Get There

Fly directly into Miami International Airport, just 30 minutes from Eden Roc Miami Beach. Daily non-stop flights are available to Miami on major national and international carriers.