### PROGRAM

**FRIDAY, JANUARY 10, 2020**

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:00 AM</td>
<td>Breakfast, Registration, Visit Exhibits and Scientific Posters</td>
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| 7:15 – 7:45 | **Bayer Clinical Update**  
             | (not accredited for AMA PRA Category 1 Credit(s)/TM)  
             | Speaker: Chia-Ying Liu  
             | Gadolinium Based Contrast Agents (GBCAs): Update and Current Understanding |
| 7:55 – 8:00 | **Welcome Remarks**  
             | V. Michele Silvera, M.D.                                            |

**SESSION 1: Developmental CNS Disorders**

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

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| 8:00 – 8:25 | **Pre- and Postnatal Diagnosis of Holoprosencephaly**  
             | Louis-Gilbert Vezina, M.D.                                           |
| 8:25 – 8:40 | **The Wide Spectrum of Tubulinopathies**  
             | Chang Y. Ho, M.D.                                                   |
| 8:40 – 8:55 | **Genetic Syndromes Associated with Childhood Overgrowth**  
             | Mark D. Mamlouk, M.D.                                               |
| 8:55 – 9:10 | **Diagnosing the Cleft Lip and Palate**  
             | Judy A. Estroff, M.D.                                               |
| 9:10 – 9:25 | **Deep Dive Into Neurofibromatosis Type 1**  
             | Julie Guerin, M.D.                                                  |
| 9:25 – 9:45 | **Rapid Fire - Developmental CNS Disorders**  
             | Susan Palasis, M.D.                                                 |
| 9:45 – 10:05 | **Scientific Oral Presentations I**  
             | Daniela Prayer, M.D.- Periventricular Crossroads- Should We Look at Them on Fetal MRI?  
             | Alex Bratt, M.D.- Automated Assessment of Myelination Development on Brain MRI with a Dual-Path Deep Neural Network  
             | Lana Vasung M.D.- Synchronized Growth of Cortical Plate and Subplate Volume During Early Phases of In-utero Development |
| 10:05 – 10:15 | **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., Unni Udayasankar, M.D.

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<tr>
<th>Time</th>
<th>Presentation</th>
<th>Physician Credit</th>
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| 10:15 – 10:35 | Patterns of Hypoxic-Ischemic Brain Injury in the Term Neonate  
*Bruno P. Soares, M.D.* | 2.0               |
| 10:35 – 10:50 | Translating Neonatal Head Ultrasound Findings to MRI in Neonatal Injury  
*Aylin Tekes, M.D.* |                  |
| 10:50 – 11:05 | Congenital Infections  
*Dorothy Bulas, M.D.* |                  |
| 11:05 – 11:20 | Perinatal Ischemic Stroke - Cause and Outcome  
*Nicholas V. Stence, M.D.* |                  |
| 11:20 – 11:35 | Perinatal Metabolic Disease  
*Matthew T. Whitehead, M.D.* |                  |
| 11:35 – 11:55 | 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.* |                  |
| 11:55 – 12:10 PM | Scientific Oral Presentations II  
*Sara Reis Teixeira, M.D.: Association of Susceptibility Weighted Imaging of Cerebral Veins with Postoperative White Matter Injury in Neonates with Complex Congenital Heart Disease  
Eva Catenaccio, M.D.: Tissue Microstructural Injury and Volume Loss in Neonatal Hypoxic Ischemic Encephalopathy  

### 12:25 – 12:55

**Wealth Management Update by Merrill Lynch FC Wealth Management Group**

(not accredited for AMA PRA Category 1 Credit(s)TM)

**Speakers:** Michael Cannegieter, SVP Wealth Management Advisor and Portfolio Manager & David Koh, Senior Investments Strategist

FC Wealth Management Group – Customized Wealth Management Solutions Aligned to Your Financial Goals

### 12:55 – 1:15

**Gold Medal Award, Presentation and Lecture**

(not accredited for AMA PRA Category 1 Credit(s)TM)

**Moderator:** Laurence J. Eckel, M.D.

**Introduction:** Timothy N. Booth, M.D.

**Recipient:** Louis-Gilbert Vezina, M.D.

**Lecture:** Neuroradiology from the 70’s to the 20’s
## SESSION 3: Advanced Pediatric Neuroimaging

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

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<tr>
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<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>1:20 – 1:40</td>
<td>Clinical Applications of 3D Printing in Children</td>
<td>Jonathan M. Morris, M.D.</td>
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<tr>
<td>1:40 – 1:55</td>
<td>Arterial Spin Labelling in Clinical Practice</td>
<td>Arastoo Vossough, M.D., Ph.D.</td>
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<tr>
<td>1:55 – 2:10</td>
<td>fMRI in Children</td>
<td>Mohit Maheshwari, MBBS, M.D.</td>
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<tr>
<td>2:10 – 2:25</td>
<td>White Matter Microstructure</td>
<td>Pratik Mukherjee, M.D., Ph.D.</td>
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<td>2:25 – 2:40</td>
<td>DTI in Congenital Malformations</td>
<td>Nancy K. Rollins, M.D.</td>
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<td>2:40 – 3:00</td>
<td>Rapid Fire - Advanced Imaging</td>
<td>Aashim Bhatia, M.D., M.S.</td>
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<tr>
<td>3:00 – 3:20</td>
<td>Scientific Oral Presentations III</td>
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<td>3:20 – 3:30</td>
<td>Refreshment Break for Registrants, Visit Exhibits and Scientific Posters</td>
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## SESSION 4: Childhood Epilepsy

**Moderators:** L. Santiago Medina M.D., Rupa Rudhakrishnan, M.D., MBBS, MS, Karuna V. Shekdar, M.D.

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<tr>
<td>3:50 – 4:05</td>
<td>Preoperative Advanced Imaging in Childhood Epilepsy</td>
<td>James L. Leach, M.D.</td>
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<td>4:05 – 4:20</td>
<td>Outcomes of Pediatric Epilepsy Surgery</td>
<td>Steven A. Messina, M.D.</td>
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<td>4:20 – 4:40</td>
<td>Rapid Fire - Childhood Epilepsy</td>
<td>Nilesh K. Desai, M.D.</td>
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<td>4:40 – 5:10</td>
<td>Creativity and the Brain</td>
<td>Phillip L. Pearl, M.D.</td>
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<td>5:10 – 5:15</td>
<td>Closing Remarks</td>
<td>V. Michelle Silvera, M.D.</td>
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<tr>
<td>5:15</td>
<td>End of Session</td>
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<tr>
<td>5:30 – 6:30</td>
<td>Welcome Reception</td>
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SATURDAY, JANUARY 11, 2020

7:00 AM
Breakfast (Sponsored by Canon)

7:00 – 7:30
BioMarin Clinical Update
(not accredited for AMA PRA Category 1 Credit(s)TM)
Speaker: Elaine Wirrell, MD, FAAN, FRCPC
Neuronal Ceroid Lipofuscinosis and CLN2 Overview

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

SESSION 5: Pediatric Spine
Moderators: Michele H. Johnson, M.D., FACR, FASER, Jeremy Y. Jones, M.D., John 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., FAAP

8:30 – 8:45
Neurointerventional Pediatric Spine AVM Treatment
Michael Hurley, MBBCh

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 IV
Camilo Jaimes, M.D.- Success Rate of Non-sedated Neuroimaging in Children 1 to 7 Years of Age
Anna Trofimova M.D.- Nationwide Trends in Pediatric Head CT Dose Indices from 2011 to 2018
Karen Buch M.D.- Neurovascular and White Matter Abnormalities in ACTA2 Mutation-Related Phenotypes

9:55 – 10:05
Refreshment Break for Registrants, Visit Exhibits and Scientific Posters
### SESSION 6: Placenta and the Fetus

**Moderators:** Christopher Ian Cassady, M.D., FRANZCR, Sarah Sarvis Milla, M.D., FAAP, Deborah M. Zarnow, M.D.

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

### Scientific Oral Presentations V

- **Guerbet Clinical Update**  
  (not accredited for AMA PRA Category I Credit(s)/TM)  
  *Speaker: Paul A. Caruso, M.D.*  
  Pediatric CNS Magnetic Resonance Imaging and the Role of Gadolinium-based Contrast Agents

- **Canon Clinical Update**  
  (not accredited for AMA PRA Category I Credit(s)/TM)  
  *Speaker: TBD*  
  Advancing Pediatric Care with Artificial Intelligence

### Additional Events

- **Scientific Oral Presentations V**
  - **Paul Griffiths, M.D.** - Automated Segmentation of the Normal Fetal Brain from 3D Volumetric MR Imaging Using a Deep U-Net
  - **Paul Griffiths, M.D.** - Automated Segmentation of Abnormal Fetal Brains from 3D Volumetric MR Imaging: Volume Estimates and Surface Representations
  - **Alexandra Korostyshevskaya, M.D.** - Quantitative Assessment of the Fetal Brain Maturation Using Macromolecular Proton Fraction and Apparent Diffusion Coefficient

- **12:00** Lunch (Sponsored by Guerbet)

- **12:15 – 12:45** Guerbet Clinical Update  
  (not accredited for AMA PRA Category I Credit(s)/TM)  
  *Speaker: Paul A. Caruso, M.D.*  
  Pediatric CNS Magnetic Resonance Imaging and the Role of Gadolinium-based Contrast Agents

- **12:45 – 1:15** Canon Clinical Update  
  (not accredited for AMA PRA Category I Credit(s)/TM)  
  *Speaker: TBD*  
  Advancing Pediatric Care with Artificial Intelligence

- **1:15 – 1:45** ASPNR Business Meeting  
  (not accredited for AMA PRA Category I Credit(s)/TM)

- **1:45 – 1:50** Refreshment Break for Registrants, Visit Exhibits and Scientific Posters
### 2nd Annual Meeting of the  
American Society of Pediatric Neuroradiology  
Eden Roc Miami Beach  
Miami Beach, Florida  
January 10 - 12, 2020

**PROGRAM**

**SATURDAY, JANUARY 11, 2020 (continued)**

**Physician Credit**

| 1:50 – 1:55 | Charles Raymond Fitz, M.D. Honorary Lecture Introduction |
| Srikala Narayanan, M.D. |

**SAM SESSION**

| 1:55 – 2:15 | Charles Raymond Fitz, M.D. Honorary Lecture: Multiple Sclerosis in Children |
| Brenda Banwell, M.D., FRCPC, FAAN |

| 2:15 – 2:30 | ADEM and Lookalikes: Differentiating Features |
| Izlem Izbudak, M.D. |

| 2:30 – 2:45 | Pediatric Myelopathies |
| Jessie Aw-Zoretic, M.D. |

| 2:45 – 3:00 | Pediatric Inflammatory Disease of the Orbit |
| Timothy N. Booth, M.D. |

| 3:00 – 3:15 | Update on Pediatric Autoimmune Encephalitis |
| Manohar M. Shroff, M.D., FRCPC |

| 3:15 – 3:35 | Rapid Fire - Demyelinating and Autoimmune Processes |
| Sumit Pruthi, MBBS |

| 3:35 – 3:45 | Refreshment Break for Registrants, Visit Exhibits and Scientific Posters |

**SESSION 7: Demyelinating and Autoimmune Processes in Children**

*Moderators: Amy R. Danehy, M.D., Korgan Koral, M.D., Leah Platenik Palifka, M.D., M.S.*

| 1:50 – 1:55 | Charles Raymond Fitz, M.D. Honorary Lecture Introduction |
| Srikala Narayanan, M.D. |

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| 3:15 – 3:35 | Rapid Fire - Demyelinating and Autoimmune Processes |
| Sumit Pruthi, MBBS |

**SESSION 8: International Session**

*Moderators: Pablo Picasso de Araujo Coimbra, M.D., Fabricio Guimaraes Goncalves, M.D., EDiNR, EDiPNR, Nucharin (Tanya) Supakul, M.D.*

| 3:45 – 4:05 | Europe: Uncommon Brain Infections |
| Efychia Z. Kapsalaki, M.D. |

| 4:05 – 4:25 | South America: Epileptogenic Brain Tumors |
| Ximena Stecher, M.D. |

| 4:25 – 4:45 | Middle East: Posterior Fossa Anomalies in the Fetus |
| Ashley J. Robinson, M.D. |

| 4:45 – 5:05 | India: Non-tuberculous Infections in India - Current and Past Trends |
| Shrinivas Desai, M.D. |

| 5:05 – 5:35 | Gameshow: Name That Syndrome |
| Moderators: Carolina Guimaraes, M.D. and David M. Mirsky, M.D. |

| 5:35 – 5:40 | Closing Remarks |
| V. Michelle Silvera, M.D. |

**6:45** Gala Dinner on Biscayne Bay Cruise- Boarding  
**7:00** Gala Dinner on Biscayne Bay Cruise- Departure
2nd Annual Meeting of the  
American Society of Pediatric Neuroradiology  
Eden Roc Miami Beach  
Miami Beach, Florida  
January 10 - 12, 2020

PROGRAM

SUNDAY, JANUARY 12, 2020

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| 7:00 – 7:30 | SyntheticMR Clinical Update  
**Speaker:** Marcel Warmjes, PhD  
Myelin Detection in Clinical Routine with SyMRI |
| 7:45 – 7:50 | ASPNR 2019 Research Award, ASPNR 2019 Derek Harwood Nash  
Award, ASPNR 2019 MIT-E Scholarship Pediatric Neuroradiology  
Award, 2020 ASPNR Meeting Case of the Day Winners, ASPNR  
2020 Best Scientific Oral Presentation Award, ASPNR 2020 Best  
Scientific Exhibit Award ASPNR 2020 Best Educational Exhibit  
Award  
**Laurence J. Eckel, M.D., ASPNR President, Mark D. Mamlouk M.D.,  
Chair Scientific and Education Exhibits Awards Committee** |

### SESSION 9: Metabolic Disease

**Moderators:** Arabinda K. Choudhary, M.D., Jonathan G. Murnick, M.D., Ph.D., and Gregory Vorona, M.D.

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| 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., FRCP(C)** |
| 8:30 – 8:45 | Mitochondrial Disorders  
**Thierry A.G.M. Huisman, M.D., PD, 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. Prabhu, MBBS, FRCR** |
| 9:35 – 9:55 | ASPNR Research Award Recipients - A Look Back  
**Moderator:** Arastoo Vossough M.D., Ph.D  
2016: Avner Meoded, M.D. on behalf of Andrea Poretti, M.D.: The  
Structural Connectome of the Human Brain in Children with Tuberous  
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 In Vivo 1H-MR Spectroscopy |

| 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, Tamara Feygin, M.D.

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<tr>
<th>TIME</th>
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| 10:05 – 10:25 | SAM SESSION | Update on Pediatric Embryonal Tumors  
Tina Young Poussaint, M.D., FCR  |
| 10:25 – 10:40 |         | Pediatric Brain Tumor Genomics Update: What You Should Know  
Kshitij Mankad, MBBS, MRCP, FCR  |
| 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  
Dennis W. Shaw, M.D.  |

12:00 – 12:05

**Closing Remarks**  
V. Michelle Silvera, M.D.

12:05

**End of Program**