

1st Annual Meeting of the
American Society of Pediatric Neuroradiology
 All Jazzed Up About Pediatric Neuroimaging
 Royal Sonesta New Orleans • New Orleans, LA
January 18 - 20, 2019

PROGRAM

Friday, January 18, 2019

**Physician
Credit**

7:00 – 7:45 AM Registration and Continental Breakfast for Registrants

7:45 – 7:50 Welcome
Susan Palasis, M.D.

SESSION 1:

EARLY BRAIN DEVELOPMENT: KNOWING NORMAL, UNDERSTANDING DISEASE

Moderators: Beth Kline-Fath, M.D., FAIUM, Esperanza Pacheco, M.D., MBA, Sarah Sarvis Milla, M.D., FAAP

7:50 – 8:10 Keynote Lecture: Brain Maturation from Fetus to Childhood 1.75
Thomas P. Naidich, M.D., FACR

8:10 – 8:25 Robert Zimmerman Honorary Lecture: Angiogenesis of the
 Cerebral Vasculature
Marvin D. Nelson Jr., M.D., FACR

8:25 – 8:40 The Fetal Posterior Fossa
Matthew T. Whitehead, M.D.

8:40 – 8:55 The Challenges and Pitfalls of Neonatal HIE
Jonathan G. Murnick, M.D., Ph.D.

8:55 – 9:10 Advanced Neonatal Imaging
P. Ellen Grant, M.D.

9:10 – 9:30 Rapid Fire Cases
Nilesh K. Desai, M.D.

9:30 – 9:50 Scientific Paper Session I (not accredited for *AMA PRA Category 1 Credit(s)TM* or Category A CE credit)

- The Fetal Falx Cerebelli in Health and Disease
Matthew Whitehead, M.D.
- Classification of Cortical Formation Abnormalities in the Fetus From in Utero MR Imaging
Paul Griffiths, FRCR, Ph.D.

**9:50 – 10:00 Refreshment Break for Registrants and
 Visit Exhibits and Scientific Posters**

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**SESSION 2:
EMERGENT CEREBROVASCULAR DISORDERS IN CHILDREN**

Moderators: Jill V. Hunter, M.D., Nolan R. Altman, M.D., Michele H. Johnson, M.D., FACR, FASER

1.75

SAM SESSION

10:00 – 10:20	Ischemic Stroke in Children <i>Richard L. Robertson, M.D.</i>
10:20 – 10:35	Neurointerventional Stroke Treatment <i>Todd A. Abruzzo, M.D.</i>
10:35 – 10:50	Setting Up an Acute Stroke Program <i>Bryan L. Philbrook, M.D.</i>
10:50 – 11:05	Intracranial Arteriopathies in Childhood <i>Nicholas V. Stence, M.D.</i>
11:05 – 11:20	Sino-venous Thrombosis and Stroke <i>Blaise V. Jones, M.D.</i>
11:20 – 11:40	Rapid Fire Cases <i>Dennis W. Shaw, M.D.</i>

11:40 – 12:00 PM Scientific Paper Session II (not accredited for AMA PRA Category 1 Credit(s)[™] or Category A CE credit)

- Progression of Cerebral Lesion Patterns in Patients with ACTA2 Arginine 179 Gene Mutation
Samantha Speroni, BA
- Brain Perfusion Abnormalities on Acute MR Imaging in Pediatric Migraine with Aura
Ilana Neuberger, M.D.
- Impact of a Specialized Pediatric Vascular Anomalies Clinic on Diagnosis and Management of Vascular
Anna Trofimova, M.D, Ph.D.

12:00 – 12:45 Lunch on Your Own

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SESSION 3: CURRENT PEDIATRITRIC NEUROIMAGING PRACTICE CONSIDERATIONS		
Moderators: Jeremy Y. Jones, M.D., L. Santiago Medina, M.D., MPH		
12:45 – 1:05	Safe and Efficient Pediatric Sedation <i>David Banks, M.D., FAAP</i>	2.0
1:05 – 1:25	Gadolinium Deposition: What is the Evidence <i>Sumit Pruthi, MBBS</i>	
1:25 – 1:45	Fast and Motion Free Neuroimaging Techniques <i>Arastoo Vossough, M.D., Ph.D.</i>	
1:45 – 2:05	Targeted Protocoling <i>Susan Palasis, M.D.</i>	
2:05 – 2:25	Neuro CT: Indications, Dose, and Contrast <i>Robert C. McKinstry, III, M.D., Ph.D.</i>	
2:25 – 2:45	Panel Discussion <i>Faculty</i>	
2:45 – 3:00	Coffee Break	
SESSION 4: INTERNATIONAL SESSION		
Moderators: Jorge Davila, M.D., Eftychia Kapsalaki, M.D., Mairoula Arvaniti, M.D.		
3:00 – 3:20	CNS Tuberculosis <i>Amal Saleh, M.D.</i>	2.0
3:20 – 3:40	Fetal and Neonatal Infections <i>Fabricio Guimares Goncalves, M.D., EDiNR, EDiPNR</i>	
3:40 – 4:00	Update on Imaging of Moyamoya Disease in Children <i>Jung-Eun Cheon, M.D.</i>	
4:00 – 4:20	Rare Phakomatosis: The mTOR and RAS Pathways Disorders <i>Mariasavina Severino, M.D.</i>	
4:20 – 4:40	Pediatric CNS HIV Manifestations <i>Tracy Kilborn, M.D.</i>	
4:40 – 5:00	Imaging Manifestations of Pediatric Neuro-Behcet's Disease <i>Kader Karli Oguz, M.D.</i>	
5:00	End of Session	
5:00 – 6:00	Welcome Cocktail Reception	

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7:00 – 7:45 AM **Breakfast & Learn sponsored by Bayer**
Gadolinium Contrast Agents - *Greg Wilson, Ph.D.*
 (not accredited for *AMA PRA Category 1 Credit(s)TM* or Category A CE credit)

Visit Exhibits and Scientific Posters

7:45 – 7:50 ASPNR Meeting Announcement
V. Michelle Silvera, M.D., 2020 ASPNR Program Chair

**SESSION 5:
 ADVANCED PEDIATRIC NEUROIMAGING**
 Moderators: Asim F. Choudhri, M.D., Izlem Izbudak, M.D. Gaurav Saigal, M.D.

1.75

SAM SESSION

7:50 – 8:10 Brain Connectivity in Children with Congenital Heart Disease
Ashok Panigrahy, M.D., Ph.D.

8:10 – 8:25 Neural Networks in Children with Epilepsy
Michael J. Paldino, M.D.

8:25 – 8:40 Current and Future Machine Learning Applications in
 Pediatric Neuroimaging
Sanjay P. Prabhu, MBBS

8:40 – 8:55 Quantification and Clinical Application of Diffusion Tensor
 Indices in the Pediatric Spinal Cord
Aashim Bhatia, M.D.

8:55 – 9:10 7T Imaging of the Pediatric Brain
Mai Lan Ho, M.D.

9:10 – 9:30 Rapid Fire Cases
James L. Leach, M.D.

9:30 – 9:50 Scientific Paper Session III (not accredited for *AMA PRA Category 1 Credit(s)TM* or Category A CE credit)

- Machine Learning Analysis of White Matter Connectome Edge Density - path towards imaging biomarkers in ASD
Sam Payabvash, M.D.
- Patterns of Structural Co-Variance Associated with Autism Spectrum Disorder in Extremely Preterm Neonates - A graph theoretic Approach
Christopher Whitlow, M.D., Ph.D.
- Detection of focal cortical dysplasia using spherical mean diffusion weighted signal
Hua Li, Ph.D.

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9:50 – 10:00 Refreshment Break for Registrants and Visit Exhibits and Scientific Posters

SESSION 6: HEAD, NECK AND SPINE		
Moderators: Maura E. Ryan, M.D., Mark D. Mamlouk, M.D., Larissa T. Bilaniuk, M.D., FACR		
10:00 – 10:20	Why Is My Child's Neck Crooked? <i>Bernadette L. Koch, M.D.</i>	1.75
10:20 – 10:35	"Eye" Have a Clue <i>Timothy N. Booth, M.D.</i>	
10:35 – 10:50	Pediatric Sinus Disease: What, When How <i>Aylin Tekes, M.D.</i>	
10:50 – 11:05	The Elusive Drop Metastasis <i>Laura L. Hayes, M.D.</i>	
11:05 – 11:20	Inborn Errors Of Metabolism, Myelin Disorders, And Childhood Ataxia - Diagnostic Clues From Down Under <i>Paul A. Caruso, M.D.</i>	
11:20 – 11:40	Rapid Fire Cases <i>Rupa Radhakrishnan, M.D., MBBS, MS</i>	

11:40 – 12:00 PM Scientific Paper Session IV (not accredited for AMA PRA Category 1 Credit(s)TM or Category A CE credit)

- Normal reference CT dimensions and volumes of the upper airway
Francisco Perez, M.D., Ph.D.
- MRI findings in Christianson Syndrome
Paul Caruso, M.D.
- Intra-arterial Chemotherapy in Children with Retinoblastoma
Tahaamin Shokuhfar, M.D.

12:00 – 12:45

Lunch and Learn Sponsored by Guerbet, LLC

GBCA Agent Retention - Ashim Bhatia, M.D.

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SESSION 7:

GENETICS AND PEDIATRIC NEURORADIOLOGY

Moderators: Mariam Aboain, M.D., Ph.D., Tushar Chandra, M.D., Ramesh Iyer, M.D.

12:45 – 1:05	Keynote Lecture: The Changing Landscape of Pediatric Neuroradiology: Gene Regulation, Molecular Pathways, and CNS Disease <i>A. James Barkovich, M.D.</i>	1.75
1:05 – 1:20	Radiomics and Artificial Intelligence for Pediatric Brain Tumors <i>Kristen W. Yeom, M.D.</i>	
1:20 – 1:35	Cancer Predisposition Syndromes and CNS Tumors <i>Zoltan Patay, M.D., Ph.D.</i>	
1:35 – 1:50	Genetic Insights Into Craniofacial Malformations <i>Caroline D. Robson, M.B., Ch.B.</i>	
1:50 – 2:05	The Hypomyelinating Leukodystrophies <i>Thierry A.G.M. Huisman, M.D., EQNR, FICIS</i>	
2:05 – 2:25	Rapid Fire Cases <i>Hisham Dahmouh, M.B., Ch.B.</i>	
2:25 – 2:45	Scientific Paper Session V (not accredited for <i>AMA PRA Category 1 Credit(s)TM</i> or Category A CE credit) <ul style="list-style-type: none"> • Symptomatic and Asymptomatic Females with Creatine Transporter Deficiency Syndrome <i>Kim Cecil, Ph.D.</i> • The landscape of genetic metabolic causes of BG and thalami involvement in children with neuroimaging correlation <i>Kalthoum Tlili-Graies, M.D.</i> 	
2:45 – 3:00	Refreshment Break for Registrants and Visit Exhibits and Scientific Posters	

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SESSION 8: CURRENT CONCEPTS IN PEDIATRIC BRAIN TUMOR EVALUATION		
Moderators: Hemant Parmar, MBBS, Unni Udayasankar, M.D., Deborah M. Zarnow, M.D.		
3:00 – 3:20	Advanced Imaging Metrics Correlation with Outcome in Pediatric Brain Tumors <i>Tina Young Poussaint, M.D., FACR</i>	1.75
3:20 – 3:35	PET/MRI Evaluation of Pediatric Brain Tumors <i>Laurence J. Eckel, M.D.</i>	
3:35 – 3:50	Skimming the Cat: An Overview on Multiple MRI Perfusion Techniques in Pediatric Brain Tumors <i>Chang Y. Ho, M.D.</i>	
3:50 – 4:05	MRS Evaluation of Brain Tumors <i>Stefan Bluml, Ph.D.</i>	
4:05 – 4:20	Amide Proton Transfer Imaging <i>John G. Curran, M.D.</i>	
4:20 – 4:40	Rapid Fire Cases <i>Kshitij Mankad, MBBS</i>	
4:40 – 5:00	Scientific Paper Session VI (not accredited for AMA PRA Category 1 Credit(s) TM or Category A CE credit) <ul style="list-style-type: none"> • Imaging Characteristics of BRAF V600E Mutated Pediatric Brain Tumors <i>K Reddy, M.D.</i> • Utility of the FIESTA Sequence in Pediatric Neuro-Oncologic Imaging <i>Ruba Kiwan, M.D.</i> 	
5:00	End of Session	
7:00	Gala Dinner Jazz Cruise Boarding Begins at 6:00pm	

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7:00 – 7:45 AM **Breakfast & Learn sponsored by Siemens Heathineers Accelerated Neuroimaging in Pediatrics** - *Nadja Kadom, M.D.*
 (not accredited for *AMA PRA Category 1 Credit(s)TM* or Category A CE credit)
and Visit Exhibits

7:45 – 7:50 ASPNR 2018 Research Award
Arastoo Vossough, M.D., Ph.D., ASPNR President

**SESSION 9:
INTRACRANIAL FLUID DYNAMICS**

Moderators: Avrum Pollock, M.D., Neil U. Lall, M.D., Karuna V. Shekdar, M.D.

7:50 – 8:10 Keynote Lecture: Intracranial Fluid Dynamics 1.75
Charles A. Raybaud, M.D.

8:10 – 8:25 Shunt Malformation: The Nuts and Bolts
V. Michelle Silvera, M.D.

8:25 – 8:40 Venous Pathology and Intracranial Hypertension in Children
Nancy K. Rollins, M.D.

8:40 – 8:55 Quantitative MR Imaging of Glymphatic Flow: Current Approaches
Christopher G. Filippi, M.D.

8:55 – 9:10 Pathophysiology and Neuroimaging Signs of Cerebral Edema
 in Children
Manohar M. Shroff, M.D., FRCPC

9:10 – 9:30 Rapid Fire Cases
Erin Simon Schwartz, M.D., FACR

9:30 – 9:50 Scientific Paper Session VII (not accredited for *AMA PRA Category 1 Credit(s)TM* or Category A CE credit)

- Anti-Myelin Oligodendrocyte Glycoprotein Antibody-associated CNS Demyelination
Brook J. Hill, M.D.
- Dural Venous Sinuses and Subarachnoid Spaces in Fetuses with MMC Correlate with Sac Morphology
Nancy Boniel, M.D.
- Neuro-imaging findings in Constitutional Mismatch Repair Deficiency Syndrome
Shai Shrot, M.D.

9:50 – 10:00 **Refreshment Break for Registrants and Visit Exhibits**

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SESSION 10: PEDIATRIC HEAD TRAUMA		1.75
SAM SESSION		
10:00 – 10:20	Navigating Current and Future Legal Challenges to Child Abuse Evidence at Home and Abroad <i>Joelle Anne Moreno, J.D.</i>	
10:20 – 10:35	Neuroimaging Signs of AHT <i>Gary L. Hedlund, D.O.</i>	
10:35 – 10:50	The SBU Report <i>David M. Mirsky, M.D.</i>	
10:50 – 11:05	Accidental Head Injury Findings <i>Nadja Kadom, M.D., FRCR</i>	
11:05 – 11:20	Abuse Mimickers <i>Susan I. Blaser, M.D., FRCP(C)</i>	
11:20 – 11:40	Rapid Fire Cases <i>Arabinda K. Choudhary, M.D.</i>	
11:40 – 12:00 PM	Scientific Paper Session VIII (not accredited for AMA PRA Category 1 Credit(s) TM or Category A CE credit) <ul style="list-style-type: none"> • Cerebral Blood Flow Changes Associated with Repetitive Head Impact Exposure in Youth Football <i>Orianna Olsen, M.D.</i> • Acute Effects of Concussion on Cerebral Blood Flow in Frontal Cortex among Adolescent Football Players <i>Israa Wajih, M.D.</i> • Relationship Between Neck Muscle Volumes and Rotational Head Accelerations from Head Impacts in High School Football <i>Ryan Fisicaro, M.D.</i> 	
12:00 – 12:05	Closing Remarks <i>Susan Palasis, M.D.</i>	
12:05	End of Program	