

ASNR 56th Annual Meeting
Vancouver Convention Centre East, Vancouver, BC, Canada

Note: All Sessions will be at the Vancouver Convention Center (VCC) East
MONDAY, June 4, 2018

Time	General Session – Hall A Capacity = 1650 Theatre (750 classroom/900 Theater)	Breakout #2- Ballroom C Capacity = 542 Theatre	Breakout #3- Ballroom B Capacity = 600 Theatre	Breakout #4-Meeting Room 1 (Meeting Room Level) Capacity = 300 Theatre	Breakout #5- Meeting Room 11/12 (Meeting Room Level) Capacity = 250 Theatre	Breakout #6- Meeting Room 8/15 (Meeting Room Level) Capacity = 205 Theatre	Breakout #7- Meeting Room 2/3 (Meeting Room Level) Capacity = 244 Theatre
6:30am – 8:00am	Breakfast – Ballroom A						
6:55am – 7:00am	01A-Opening Remarks <i>Pina Sanelli, MD</i>						
7:00am – 8:00am	02A-One Hour SAM Session (SAM) Brain <i>Moderators: Noriko Salamon, MD, Jeremy J. Heit, MD, PhD</i> 7:00am-7:25am Sustain the Brain; Intriguing Neoplastic, Infectious, Inflammatory Cases- <i>Behroze A. Vachha, MD, PhD</i> 7:25am-7:50am Sustain the Brain; Intriguing Cerebrovascular Cases- <i>Pamela W. Schaefer, MD</i>		-	-	-		
8:00am – 9:00am	03A-Keynote Speaker: The Radiology Renaissance: Shaping the Future of Healthcare <i>Introduction: Pina Sanelli, MD</i> <i>KeyNote Speaker: Mr. Andy DeLaO</i>						
9:10am – 10:00am	04A-How-To Session: Guerbet LLC	-	-	-	-		
10:00am-10:30am	Morning Beverage Break	-	-	-	-		
10:30am – 12:00pm	05A-ASFNR Programming: Value of Clinical fMRI Service <i>Moderators:</i> -The Economics of Clinical fMRI Service- <i>Jay J. Pillai, MD</i> -Why I need fMRI: Neurosurgeon's Perspective- <i>Chetan Bettegowda, MD, PhD</i>	05B-Healthcare Policy Programming: Alternative Payment Models and the Diagnostic Radiologist <i>Moderators:</i> -Alternative Payment Models: Current and Future Opportunities for the Diagnostic Radiologist-	05C-SNIS Programming: Coils, Pipes and Webs: State of the Art Treatment <i>Moderators:</i> -Novel aneurysm treatment devices: Why, When and How?- <i>Michael E. Kelly MD, PhD</i> -Imaging Post Intra-Arterial	05D-Parallel Paper Session: Stroke Treatment Strategies	05E-Parallel Paper Session: Advanced Techniques in Brain Tumor Imaging I	05F-Excerpta: Adult Brain: Degenerative and Inflammatory, Infectious Diseases	05G- Parallel Paper Session: Education and Training

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	-Interpretation of fMRI to Optimize Value for Neurosurgeons-Kirk M. Welker, MD -More Value? Future Developments in Clinical Functional MRI-Andrei I. Holodny, MD - Panel Discussion	Joshua A. Hirsch, MD, FACR, FSIR -Harvey Neiman Health Policy Institute Update on Resources for Radiologists Participating in an APM-Danny Hughes, PhD -Lessons Learned from the Physician-Focused Payment Model Technical Advisory Panel for the Radiologist-Lauren Golding, MD -Panel Discussion	Device Treatment-Reade A. De Leacy MBBS -An update on embolization treatment of dAVF and AVM-Cameron G. McDougall, MD				
10:30am – 1:15pm	Lunch – Exhibit Hall B						
12:15pm – 12:45pm	06A-ASNR Strategies and Updates – Mary Beth Hepp, MBA, ASNR Executive Director (15min) ASNR Annual Business Meeting (15min)	-	-	-	-		
1:00pm-1:15pm	Lightning Sessions: Siemens						
1:15pm – 2:45pm	07A-SNIS Programming: Stroke Therapy: Where Are We Now? (SAM) <i>Moderators:</i> -What We Know: Show Me the Evidence-Ryan A. McTaggart MD -- What We Don't Know and Future Directions-Mayank Goyal MD, FRCPC -Value in Vessel Imaging in All Stroke Patients-Thabele (Bay) Leslie-Mazwi, MD -TIA imaging and beyond-Gregory G. Zaharchuk MD, PhD	07B-ASSR Programming: Spinal Imaging: State of the Art & Beyond <i>Moderators:</i> -Spectral CT/Dual Energy CT-John L. Go, MD, FACR -DWI & Perfusion Imaging-Adam E. Flanders, MD -Spinal Angiography-Philippe E. Gailloud, MD -MRA & CTA-Roland R. Lee, MD, FACR -MR Neurography-Cynthia T. Chin, MD	07C-CSI Programming: Artificial Intelligence and Machine Learning <i>Jaqueline Moderators:</i> -Basic Overview-Tim O'Connell, MD -The MGH ER Experience-Michael H. Lev, MD, FACR -ACR Assist and AI-Sumit N. Niogi, MD, PhD -Radiometric and AI-Christopher T. Whitlow, MD, PhD, MHA	07D-ESNR Programming: Imaging Biomarkers in Vascular Diseases <i>Moderators:</i> -Small Vessel Diseases-Meike W. Vernooij, MD, PhD, - Cerebral Microbleeds and Cortical Superficial Siderosis-Prof. H. Rolf Jager -Brain Aneurysms-Ajay Malhotra, MD	07E-Parallel Paper Session: Advanced Techniques in Brain Tumor Imaging II	07F-Parallel Paper Session: Epilepsy Imaging Techniques	07G-Parallel Paper Session: Imaging Neurodegenerative Diseases
2:45pm – 3:00pm	Afternoon Beverage Break	-	-	-	-		
3:00pm – 4:30pm	08A-Evidence Based Medicine Programming: Comparative Effective Research Training	08B-Parallel Paper Session: New Findings in Multiple Sclerosis	08C-Parallel Paper Session: Pediatric Imaging	08D-Parallel Paper Session: Spine Interventions	08E-Parallel Paper Session: Cerebral Aneurysms Management	08F- Excerpta: Adult Brain: Infectious	08G-Parallel Paper Session: Brain: New and Advanced

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	<p>(CERT) <i>Moderators:</i> -What is Comparative Effective Research and Why is it Vital to the Future of Neuroradiology?- <i>Pina C. Sanelli, MD, MPH, FACR</i> -Overview of the RSNA-ASNR Comparative Effective Research Training Program?- <i>Yoshimi Anzai, MD, MPH</i> -Panel Discussion: What Did We Get Out of the CERT Program? <i>Ajay Malhotra, Lubdha Shah, Prakash Muthusami, Timothy Amrhein</i></p>				and Treatment	Disease/Vascular Diagnosis and Neoplasms	Techniques
4:45pm – 6:15pm	<p>09A-Healthcare Policy Programming: Value Matters in Health Policy (SAM) <i>Moderators:</i> -Radiologists' Initiatives and Services for Creating Value-Value Matters- <i>Geraldine McGinty, MD, MBA</i> -Marketing Value from the Radiologist's Perspective- <i>Frank J. Lexa, VII, MD, FACR</i> -Value Perspectives and Controversies; A Closer Look- <i>John E. Jordan, MD, FACR</i> -SAM Questions & Answers</p>	<p>09B-ASFNR Programming: Value of Neuroimaging for Psychiatric Disorders <i>Moderators:</i> -Using Genetic Animal Models of Neuropsychiatric Disease to Dissect the Contributions of Genetic and Environmental Factors to Psychiatric Disorders- <i>John-Paul J. Yu, MD, PhD</i> -Role of Neuroimaging for Schizophrenia- <i>John D. Port, MD, PhD</i> -Computational Approach in Neuropsychiatric Imaging/Data Repository- <i>R. Cameron Craddock, PhD</i> -Translation of Advanced Neuroimaging for Psychiatric Diseases to the Clinics- <i>Leanne Williams, PhD</i> -Panel Discussion</p>	<p>09C-Canadian Session: Comparing Current Physician (fee for service) Payment Systems between Canada and USA <i>Moderators:</i> -Fee for Service Radiology, A Look at Private Payer and Government Based Insurance- <i>Raymond K. Tu, MD, FACR</i> -Alternative Payments Models for the Radiologist: Present and Future- <i>Melissa Chen, MD</i> -Fees for Service and Models of the Radiologist from a Canadian Expert- <i>Jason Sutherland, MD</i> -Panel Discussion</p>	<p>09D-Evidence Based Medicine Programming: Gadolinium in Neuroimaging: To Give or Not to Give –What is the Evidence? <i>Moderators:</i> -Gadolinium Deposition in the Brain-Reason for Concern? Risk Benefit Assessment- <i>Howard A. Rowley, MD</i> -The Indications of Gadolinium Administration in the Brain-What is the Evidence?- <i>Emanuel Kanal, MD</i> -The Indications of Gadolinium Administration in the Spine-What is the Evidence?- <i>Lubdha M. Shah, MD</i> - Gadolinium Administration for Pediatric and Lactating Patients- <i>Susan Palasis, MD</i></p>	<p>09E-Study Group: Clinical Translation of Functional Diffusion MRI (non-cme)</p>	<p>09F-Parallel Paper Session: Spine: New Findings</p>	<p>09G- Parallel Paper Session: Interventional: Aneurysms, AVMs and Tumors</p>

6:15pm - 7:30pm Reception with Technical Exhibits – Exhibit Hall B, Vancouver Convention Centre East

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TUESDAY, June 5, 2018

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6:30am – 8:00am	Breakfast – Ballroom A	-	-	-	-		
7:00am – 8:00am	10A-One Hour SAM Session (SAM) Spine <i>Moderators:</i> -Refine the Spine; Amazing Pediatric Cases - <i>Erin Simon Schwartz, MD, FACR</i> -Refine the Spine; Amazing Adult Cases - <i>Vinil N. Shah, MD</i>						
8:00am – 9:00am	11A-SPECIAL Session: Past President’s Perspective: Impactful Trends in Neuroradiology <i>Moderators: Carolyn C. Meltzer, MD, Michael S. Huckman, MD</i> -Welcome and Introductions -Comments on 50+ years of Society Leadership- <i>Michael S. Huckman, MD</i> -Structure to Function: Trends in Stroke Diagnosis and Treatment- <i>Pamela W. Schaefer, MD</i> -The Impact of Machine Learning on Neuroradiology Practice: What Have We to Fear?- <i>R. Nick Bryan, MD, PhD</i> -Neuroradiology Education: From Testing to Life-Long Learning- <i>Robert D. Zimmerman, MD</i> -Discussion	11B-Parallel Paper Session: Computer Assisted and Deep Learning Methods in Stroke Imaging	11C-Parallel Paper Session: Brain: Traumatic Injury	11D- Parallel Paper Session: Imaging Brain Metastases	11E-Parallel Paper Session: Brain: New Findings	11F- Parallel Paper Session: Pediatric: Advanced Techniques I	
9:10am – 10:00am	12A- How-To Session: Bracco	-	-	-	-		
10:00am-10:30am	Morning Beverage Break	-	-	-	-		

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10:30am – 12:00pm	<p>13A- SNIS Programming: Novel Neurovascular Imaging Techniques <i>Moderators:</i> -Beyond DCE Perfusion (BBB Permeability etc.)-<i>Jeremy J. Heit MD PhD</i> -Vessel Wall Imaging for ICAD, etc.-<i>Sameer A. Ansari MD PhD</i> -Intracranial flow analysis with perfusion (CT/MR) -<i>Jeffrey Saver MD</i> -Intracranial velocity analysis (MR Based)-<i>Vitor Mendes Perreira, MSc, MD</i></p>	<p>13B-ASSR Programming: How to Improve the Value of Imaging in Spinal Oncology <i>Moderators:</i> -Critical Imaging Findings for Clinical Management of Adults with Spinal Metastases-<i>Wende N. Gibbs, MD, MA</i> -Osseous Spinal Lesions-Multi-Parametric Imaging-<i>Lawrence N. Tanenbaum, MD, FACR</i> -Can AI Help Us To Improve Diagnostic Accuracy for Metastases?-<i>Richard H. Wiggins, III, MD</i> -Bundled Oncology Payments-What Role Should Radiology Play in Diagnosis and Treatment? -Panel Discussion: Is Imaging-Guided Biopsy Overused with a Known Primary?</p>	<p>13C-Advanced Imaging Programming <i>Moderators:</i> -Multimodal Imaging of Brain Structure and Function-<i>Jeffrey I. Berman, PhD</i> -Accelerating Edited MRS-<i>Richard A.E. Edden, PhD</i> -Putting It All Together-Comprehensive Imaging of Genetic Syndromes-<i>Elliott Sherr, MD, PhD</i></p>	<p>13D-YP Programming: Bringing Value to Our Imaging Reports <i>Moderators:</i> -Reporting in Traumatic Brain Injury – <i>Yvonne Lui, MD</i> -Reporting in Head & Neck Cancer Staging – <i>Claudia F.E. Kirsch, MD</i> -Reporting in Back Pain Patients – <i>Amish H. Dosh, MD</i> -How Can Structured Reporting Assist in Adding Value? – <i>Annette J. Johnson, MD, MS</i></p>	13E-Parallel Paper Session: Policy and Quality	13F-Exerpta: Neoplasms, Stroke and Interventional	13G- Parallel Paper Session: Pediatric: Developmental and Congenital
10:30am – 1:15pm	Lunch – Exhibit Hall B						
1:15pm – 2:45pm	<p>14A-Education Programming: Learn to Love Life Long Learning (SAM) <i>Moderators:</i> -Cool Teaching Tools and Techniques (e.g. tablets, ARS)-<i>Harprit S.Bedi, MD</i> -Neuroradiology Education Update (ABR, ACGME, etc)-<i>Christie M. Lincoln, MD</i> -Fellow View of NR, Teaching, Jobs and Opportunities-<i>Matthew H. Kulzer, MD</i> -Teaching Resources (ASNR, ACR, RSNA, AUR, etc)-<i>Atul K. Mallik, MD</i></p>	<p>14B-ASFNR Programming: Value of PET-MRI for Neurological Disorders <i>Moderators:</i> -PET/MRI for Cerebrovascular Disease-<i>Gregory G. Zaharchuk, MD, PhD</i> -PET/MRI as a First Line Imaging Modality for Epilepsy-<i>Derek R. Johnson, MD</i> -PET/MRI in the Work-up of Dementia-<i>Timothy M. Shepherd, MD, PhD</i> -PET/MRI for Brain Tumors-<i>Jonathan E. McConathy, MD</i> -Panel Discussion</p>	<p>14C-Evidence Based Medicine Programming: Speed Journal Club in Neuroimaging: What are the “Hot Topics” You Should Know <i>Moderators:</i> -Brain I-Brain Tumors-<i>Andrei I. Holodny, MD</i> -Brain II-Traumatic Brain Injury-<i>Christopher G. Filippi, MD</i> -Spine-<i>Peter Kranz, MD</i> -Head & Neck-<i>Eugene Yu, MD</i> -Pediatrics-<i>David M. Mirsky, MD</i> -Neuro Interventional-<i>Matthew D. Alexander, MD</i></p>	<p>14D-ASSR Programming: International Review: State-of-The-Art Spinal Interventions <i>Moderators:</i> -MR Evaluation of LBP- Valuable and Appropriate for the Right Patients-<i>Johan W. Van Goethem, MD, PhD</i> -RF Ablation and Cryoablation for Treatment of Vertebral Joint Pain-<i>Stefano Marcia, MD</i> -Pulsed Radiofrequency Stimulation for Pain Syndromes-<i>Mario Muto, MD</i> -CT Guided Treatment of Spinal Canal and Foraminal Stenosis-<i>Luigi Manfre, MD</i></p>	<p>14E-SILAN Programming: Update of CNS Infection in the 21st Century: What You Need to Know! <i>Moderators: Luisa Biscoito, MD; Rafael Rojas, MD</i> -Neuroimaging Findings of Congenital Zika Virus Syndrome: The History of the Disease that is Still Being Written-<i>Maria Fatima Vasco Aragao, MD</i> -The Many Faces of Bacterial CNS Infections: Usual Suspects and Beyond!-<i>Carlos H. Torres, MD, FRCPC</i> -Imaging of Parasitic Infections of the CNS-<i>Lazaro L.F. Amaral, MD</i></p>	14F- Parallel Paper Session: Skull Base and Sinus	14G- Parallel Paper Session: Fetal Brain Imaging

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					-Update on PML Infection in the 21 st Century-Alex Rovira, MD		
2:45pm – 3:00pm	Afternoon Beverage Break	-	-	-	-		
3:00pm – 4:30pm	15A-Parallel Paper Session: Head and Neck: New (Techniques) and Deep (Spaces)	15B-Parallel Paper Session: Pediatric: New Findings	15C-Parallel Paper Session: Spine: Advanced Techniques	15D-Parallel Paper Session: Interventional Stroke Trials	15E-Parallel Paper Session: Deep Learning Techniques and Methods	15F- Parallel Paper Session: Brain Tumor Imaging: New Findings	15G- Parallel Paper Session: Brain: Inflammatory and Infectious Diseases
4:45pm – 6:15pm	16A-ASSR Programming: Spinal Interventions: Show Me the Evidence (SAM) <i>Moderators:</i> -EBM for PVA in 2018-Michele H. Johnson, MD, FACR -EBM MILD returns to the Armamentarium-Dan T.D. Nguyen, MD -EBM for ESI-Walter S. Bartynski, MD -EBM Basi-Vertebral Nerve Ablation-John D. Barr, MD, FACR, FSIR, FAHA -EBM HIFU for Facet Pain-Lubdha M. Shah, MD	16B-Comparative Effectiveness Research Session: Optimal Imaging of Acute Ischemic Stroke – Evidence Updates for the Era of Mechanical Thrombectomy? <i>Moderators:</i> -What is the Role of CT and CTA Imaging for Acute Ischemic Stroke?-Richard I. Aviv, MD, MBCHB, MRCP, FRCR -What is the Role of MRI in the Assessment of Acute Ischemic Stroke?-Max Wintermark, MD -What is the Role of Perfusion and Collateral Imaging in Acute Ischemic Stroke?-Achala S. Vagal, MD -What is the Role of Vessel Wall Imaging in Acute Ischemic Stroke?-Mahmud Mossa-Basha, MD -Panel Discussion	16C-ASPNR/ESNR (European Society of Neuroradiology) Collaboration Session: Safety and Toxicity to the Pediatric Brain <i>Moderators:</i> -Updates in Gadolinium Deposition and MR Safety -Emanuel Kanal, MD, FACR, FISMRM, AANG -Updates in Toxic and Metabolic Disorders in the Pediatric Brain -Andrea Rossi, MD -Rapid Imaging Protocol and Leveraging MR Fingerprinting Techniques in Pediatric Neuroradiology -Guilio Zuccoli, MD -Speed versus Information and Safety issues in Fetal MRI -Andrea Righini, MD	16D-Parallel Paper Session: Advanced Diagnostic Techniques in Cerebral Aneurysms and AVMs	16E-Study Group: Intracranial and Cervical Vessel Wall Imaging Study Group (non-cme)	16F- Parallel Paper Session: Excerptas: Pediatric Head and Neck	16G- Parallel Paper Session: Brain Tumors: New Diagnostic Considerations II

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WEDNESDAY, June 6, 2018

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6:30am – 8:00am	Breakfast – Ballroom A	-	-	-	-	-	
7:00am – 8:00am	17A-One Hour SAM Session (SAM) (AR): Forget K Space...This is the Case-Base! <i>Moderators:</i> -Challenging Cases-Josh Nickerson, MD -Challenging Cases II-Mark E. Mullins, MD						
8:00am – 9:00am	18A-SPECIAL Session: Brain in Flame: Pathology and Imaging of Noninfectious CNS Inflammation -Anne Osborn, MD	18B- Parallel Paper Session: Cerebrovascular Imaging: New Applications	18C-Parallel Paper Session: Spine: Fluoroscopy-Guided Techniques	18D- Parallel Paper Session: Vessel Wall Imaging: Advanced Techniques	18E-Parallel Paper Session: Carotid Artery Stenosis Imaging	18F-Parallel Paper Session: Gadolinium Effects in the Brain	18G-CSF Flow Group: Chiari I (Part I) <i>Moderator: Harold ReKate, MD</i> -Chiari Definition, Craniocervical Junction-A. James Barkovich, MD -CSF Dynamics in the Pathogenesis of Syringomyelia- Victor M. Haughton, MD
9:10am – 10:00am	19A- How-To Sessions: IschemiaView	-	-	-	-	-	
10:00am-10:30am	Morning Beverage Break	-	-	-	-	-	
10:30am – 12:00pm	20A- ASFNR Programming: Value of 7T MRI for Neurological Disorders (SAM) <i>Moderators:</i> -Overview of Clinical Uses of 7T-Stephen E. Jones, MD, PhD -7T for Alzheimer's Disease-Michael Zeineh, MD, PhD -7T for Epilepsy-Ali R. Khan, PhD -(7T Functional MRI-Steven M. Stufflebeam, MD	20B- ASNR/SNMMI (Society of Nuclear Medicine and Molecular Imaging) Collaboration Session: Emerging Frontiers for PET of the Brain <i>Moderators:</i> -PET Tau and Amyloid Imaging-John Seibyl, MD -PET for Neuroinflammation-Robert Innis, MD -PET/MRI for the Brain-Jon	20C-Healthcare Policy Programming: How Radiologists are Paid Around the World <i>Moderators:</i> -Canadian Perspective-Allan J. Fox, MD, FRCPC, FACR -Europe-O. Petter Eldevik, MD -Australia-Simon R. Khangure, MBBS, FRANZCR -South America-Luiz Celso	20D-Parallel Paper Session: Jaw, Neck and Orbit	20E- AOSNHNR Programming: From BBB, Vessel Wall and PVS to Glymphatic System <i>Moderators:</i> Yukunori Korogi, MD; Kook Jin Ahn, MD; Wan-You Guo -Vessel Wall Imaging	20F-Excerpta: Spine	20G- CSF Flow Group: Chiari I (Part II) <i>Moderator: Ari Blitz, MD</i> -The Chiari Anomaly-Concezio di Rocco, MD -The Chiari Deformation-Charles Reybaud, MD -Clinical Assessment of Chari I-Ash Singhal, MD

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	-Panel Discussion	<i>McConathy, MD</i>	<i>Hygino Da Cruz, Jr. MD, PhD</i> -Panel Discussion		and Neurovascular Disease- <i>Dittapong Songsaeng, MD</i> -High Resolution Vessel Wall Imaging of Vertebrobasilar Stenosis: Diagnosis and Endovascular Management- <i>Feng-Chi Chang, MD</i> -DCE Application for BBB Evaluation- <i>Seung Hong Choi, MD</i> -Controversies on Glymphatic Systems- <i>Toshiaki Taoka, MD</i>		
10:30am – 1:15pm	Lunch – Exhibit Hall B 12:00pm-1:00pm - ASPNR Business Meeting – Members Only		-	-		-	
1:15pm – 2:45pm	21A-ASPNR Programming: Placenta and Imaging of the Immature Brain (SAM) <i>Moderators:</i> -Updates in Fetal Brain MRI- <i>Orit A. Glenn, MD</i> -Updates in Neonatal Brain MRI- <i>Beth Kline-Fath, MD</i> --Ultrasound vs MR in Assessment of Placental and Fetal Brain- <i>Denise Pugash, M.D.</i> -Advanced MR imaging of the Placenta and the Fetal Brain- <i>Catherine Limperopolous, PhD</i> -SAM Questions and Answers	21B-ASHNR Programming: Radiologist Value in Head and Neck Tumor Staging <i>Moderators:</i> -The New AJCC 8 th Edition: Changes from the 7 th with Emphasis on Critical Imaging Contributions- <i>Lawrence E. Ginsberg, MD</i> -CT or MRI or PET/CT? Value-added Cancer Imaging Optimized for Head and Neck Site- <i>Barton F. Branstetter, IV, MD, FACR</i> -NIRADS: Structured Reporting for Head and Neck Cancer- <i>Kristen Lloyd Baugnon, MD</i> -Radiologist Participation in Tumor Boards and Other Clinical Conferences: Is there a Viable Reimbursement Model?- <i>Christine M. Glastonbury, MBBS</i>	21C-Evidence Based Medicine Programming: Introduction to CER Methods <i>Moderators:</i> -Systematic Review and Meta-Analysis- <i>Ajay Gupta, MD</i> -Decision-Analysis and Cost-Effectiveness Analysis- <i>Brian Bresnahan, PhD</i> -Using Big Data in Comparative Effectiveness Research- <i>Jeffrey G. Jarvik, MD, MPH</i> -Applications of CER: Building a Clinical Care Pathway - <i>Maria (Gabriela) Martinez, PhD</i>	21D-Parallel Paper Session: Advanced Techniques in Quantitative Imaging	21E- Parallel Paper Session: Decision Support, Value and Safety	21F- Parallel Paper Session: Head and Neck: Congenital, Salivary, and Temporal Bone	21G-CSF Flow Group: Hydrocephalus <i>Moderator: Frank Mihlon, MD</i> -Classification of Hydrocephalus- <i>Ari Blitz, MD</i> -The Effect of Shunt Failure and Revision on Brain Stiffness- <i>Mark Wagshul, MD</i> -MR Elastography Differentiates NPH from the other common Dementias- <i>John Huston, MD</i> -Advanced Neuroimaging in Infant Ferrets with Post-Hemorrhagic Hydrocephalus- <i>Pat McAllister, MD</i>

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2:45pm – 3:00pm	Afternoon Beverage Break	-	-	-	-	-	
3:00pm – 4:30pm	22A-ASHNR Programming: Value-Added Imaging of the Sinonasal Cavity and Anterior Cranial Base <i>Moderators:</i> -Chronic Rhinosinusitis: What Do Our Referrers Want to Know- <i>C. Douglas Phillips, MD, FACR</i> -Imaging Red Flags in Acute and Aggressive Sinonasal Inflammatory Disease, <i>Daniel E. Meltzer, MD</i> -Sinonasal Tumors with Emphasis on Resectability Determination- <i>Laurie A. Loevner, MD</i> -Image Guidance CT in Sinonasal and Cranial Base Tumors: Where Can We Add Value to Our Reports?- <i>Ilona M. Schmalfluss, MD</i>	22B-CSI Programming: Virtual Lifelong Learning for the Neuroradiologist <i>Moderators:</i> -Social Media: Podcasts- <i>Nicholas A. Koontz, MD</i> -Online Teaching Files- <i>Ryan B. Peterson, MD</i> -3D Virtual Radiology- <i>Justin Kamer, MD</i> -ABR, MOC and CAQ Panel Discussion- <i>Vincent P. Mathews, MD, FACR and Christopher P. Wood, MD</i>	22C-Foundation Awards Paper Session <i>Moderators:</i> - Awards Announcements - Norman E. Leeds Award (ESNR) -Evaluation of White Matter Integrity in Multiple Sclerosis with Advanced MRI Techniques- <i>Fang Yu, MD</i> -Stephen A. Keiffer Award-Best Mentor Paper (ESNR)-Automated Detection of Volume-Changing Metastatic Brain Tumors on Longitudinal Brain MRIs Based on Jacobian Operator Field- <i>Omid Shearkhani, MD</i> -Louis A. Gilula, MD Mentor Award (ASSR) -Gabriel H. Wilson Award (WNRS) -Research Grant Award Winner -Radiology-In-Training Award(ASHNR) -2018 Cornelius G. Dyke Memorial Award-	22D-Parallel Paper Session: Pediatric: Advanced Techniques	22E- Parallel Paper Session: Brain Tumors: New Diagnostic Considerations II	22E-Excerptas: Pediatric and Head & Neck Cases	22G-CSF Flow Group: CSF Pulsatility <i>Moderator: Olivier Baledent, MD</i> -Morphology of DTI Profiles in NPH- <i>Nicole Keong, MD</i> -SAVE-A Strain-Accumulation Visco-Elastic Hypothesis for the Onset of Normal Pressure Hydrocephalus- <i>Juan Lasheras, MD</i> -Intracranial Pulsatility and CSF Flow in NPH- <i>Per Kristian Eide, MD</i> -Separating the Effects of Pulsation and Resistance to Flow in Hydrocephalus- <i>Harold ReKate, MD</i>
4:45pm – 6:15pm	23A-ASPNR: Pediatric Cased Based Session (AR): Case Review Series: Pediatric Head and Neck <i>Moderators:</i> -Cystic Lesions and Neoplasms in Pediatric Head and Neck- <i>Caroline D. Robson, MB, ChB</i> -Pediatric Temporal Bone- <i>Timothy N. Booth, MD</i> -Vascular Anomalies in Pediatric Head & Neck- <i>Aylin Tekes-Brady, MD</i>	23B-Head & Neck Programming: Temporal Bone Imaging: the Basics <i>Moderators:</i> -Temporal Bone Anatomy and Trauma- <i>Tabbasum A. Kennedy, MD</i> -Temporal Bone Inflammatory Disease- <i>John I. Lane, MD</i> -Tumors of the Temporal Bone- <i>Hugh D. Curtin, MD, FACR</i>	23C-YP Programming: Non-Clinical Advice for Early Career Neuroradiologists <i>Moderators:</i> -Managing Work-Life Balance: Pearls and Pitfalls- <i>TBD</i> -Burn-out Phenomenon: How Does It Affect the New Generation of Radiologists?- <i>Eric Russell, MD</i> -Value of Professional Networking -TBD	23D-Parallel Paper Session: Applications of Functional MR Imaging	23E-Study Group: Imaging Genomics (non-CME)	23F- Parallel Paper Session: Stroke Imaging: Diagnosis and Prognosis I	23G-CSF Flow Group: CNS Solute Transport (Part I) <i>Moderator: Vartan Kurtcuoglu, MD</i> -Modelling of Perivascular Flow- <i>Lynne Bilston, MD</i> -Numerical Modeling Predicts that Basement Membrane Solute

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	-Fetal Head/Neck and Orbital Imaging- <i>Ashley J. Robinson, MD, ChB</i>						Transport in the CNS Cannot be Explained by Bulk Flow Nor By Shear- <i>Michael Keith Sharp, MD</i> -Human and Non-Human Primate Meninges Harbor Lymphatic Vessels that can be Visualized Noninvasively by MRI- <i>Daniel Reich, MD</i> -Outflow of CSF is Predominantly through Lymphatic Vessels in Mice- <i>Steven Proulx, MD</i>
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Thursday, June 7, 2018

Time	General Session – Hall A Capacity = 1650 Theatre (750 classroom/900 Theater)	Breakout #2- Ballroom C Capacity = 542 Theatre	Breakout #3- Ballroom B Capacity = 600 Theatre	Breakout #4-Meeting Room 1 (Meeting Room Level) Capacity = 300 Theatre	Breakout #5- Meeting Room 11/12 (Meeting Room Level) Capacity = 250 Theatre	Breakout #6- Meeting Room 8/15 (Meeting Room Level) Capacity = 205 Theatre	Breakout #7- Meeting Room 2/3 (Meeting Room Level) Capacity = 244 Theatre
6:30am – 8:00am	Breakfast – Ballroom A	-	-	-	-	-	
7:00am – 8:00am	24A-One Hour SAM Session (SAM) (AR) Head and Neck Cases: Everybody's Favorite! <i>Moderators:</i> -Orbits, Sinonasal Cavity, Skull Base- <i>Tabbasum A. Kennedy, MD</i> -Neck- <i>Ilona M. Schmalfuss, MD</i>						
8:00am – 9:00am	25A-General Programming: Value of Imaging Genomics for Brain Tumors <i>Moderators:</i> -From Genomics to Proteomics: A Primer for the Neuroimager- <i>James Y. Chen, MD</i> -Imaging Genomics and Radiomics in GBM and Brain Metastases- <i>Rivka Colen, MD</i> -Biostatistical and Bioinformatic Approach in Imaging Genomics- <i>Oliver Gaevert, MD</i> -Deep Learning Approaches in Imaging- <i>Adam E. Flanders, MD</i> -Panel Discussion	25B-YP Programming: Leveraging Social Media to Enhance Neuroradiology <i>Moderators:</i> -Stay Connected to Colleagues – <i>Jerrold Boxerman, MD, PhD</i> -Patient Engagement – <i>Ashley H. Aiken, MD</i> -Do's and Don'ts of Social Media - <i>Amy L. Kotsenas, MD</i> -Discussion Panel	25C-Parallel Paper Session: Imaging Utilization and Population Health Outcomes in Acute Stroke	25D-Parallel Paper Session: Interventional: Aneurysms and AVMs	25E-Parallel Paper Session: Interventional: Advanced Techniques		25G-CSF Flow Group: CNS Solute Transport (Part II) <i>Moderator: Bryn A. Martin, MD</i> -DCE-MRI and Modeling Work on the Subject- <i>Helene Beneviste, MD</i> -Anatomy and Physiology of Cerebral Intramural Periarterial Drainage- <i>R. Carare, MD</i> -Next Steps in the Study of CNS Solute Transport- <i>Vartan Kurtcuoglu, MD</i>
9:10am – 10:00am	26A- How-To Session: Cannon	-	-	-	-		
10:00am-10:30am	Morning Beverage Break	-	-	-	-	-	
10:30am – 12:00pm	27A-ASHNR Programming: Update on Vascular Lesions of the Head & Neck (SAM) (AR) <i>Moderators:</i>	27B-ASPNR Programming: Healthcare Artificial Intelligence and Application to Pediatric Neuroradiology	27C-CSI Programming: Adding Value as a Neuroradiologist <i>Moderators:</i>	27D-Parallel Paper Session: Updates in Interventional Neuro	27E-Parallel Paper Session: Quantitative Imaging: Advanced Techniques and		27G-CSF Flow Group: CSF Flow <i>Moderator: Mark Wagshul, MD</i>

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	<p>-Review of Modern Classification and Nomenclature of Vasoformative Lesions- <i>Deborah R. Shatzkes, MD</i> -Imaging of Hemangiomas and Related Vascular Tumors-<i>Bernadette L. Koch, MD</i> -Imaging of Vascular Malformations-<i>Ashok Srinivasan, MD</i> -Neurointervention in the Management of Head and Neck Vascular Lesions- <i>Alejandro Berenstein, MD</i></p>	<p><i>Moderators:</i> -Artificial Intelligence: Hype, Myth and How It Will Add Value to Your Practice?-<i>Eliot L. Siegel, MD</i> -Top of License Practice for Machines: The Impending of Artificial Intelligence and Machine Learning on Healthcare Delivery-<i>Daniel Durand, MD</i> - A basic primer of Machine Learning for the Pediatric Neuroradiologist: <i>Rafael Ceschin, PhD</i> -Clinical Applications of Machine Learning in Pediatric Neuroradiology- <i>Michael J. Paldino, MD</i></p>	<p>-3D Printing-<i>Jonathan M. Morris, MD</i> -Structured Reporting--<i>Barton F. Branstetter, IV, MD, FACR</i> -Decision Support CPOE- <i>Stewart Rosenberg</i> -Managing Errors in Dagnosis and Management-<i>Anandh Rajamohan, MD</i></p>		<p>Methods</p>		<p>-ICP Modeling During Infusion Test-<i>Vegard Vinje, MD</i> -CSF Flow Verses Cerebral Blood Flow- <i>Olivier Baledent, MD</i> -Volumetric Assessment of IHH-<i>Claudia F.E. Kirsch, MD</i> -Steady Streaming: Computational Fluid Dynamics Predicts Non-Zero Time-Averaged Intrathecal CSF Flow- <i>Bryn A. Martin, MD</i></p>
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