



DETAILED MEETING SCHEDULE

ALL BROADCAST TIMES ARE LISTED IN U.S. CENTRAL DAYLIGHT TIME (UTC-5)

SATURDAY, MAY 22	
12:55 pm	Welcome Remarks
1:00-2:30 pm	<p>Symposium Session: Adult Brain Tumor Imaging: Bridging Innovation & Practice</p> <p>David N. Louis, MD, PhD: <i>Updated WHO 2021 Classification of Tumors of the Central Nervous System</i> Tracy T. Batchelor, MD, MPH: <i>Advances in the Latest Research and Treatment of Adult Brain Tumors</i> Soonmee Cha, MD: <i>Advances in Neuroimaging of Adult Brain Tumors</i> Mark S. Shiroishi, MD, MS: <i>Perfusion Imaging Applications in Brain Tumor Imaging</i> Michael Zeineh, MD, PhD: <i>DTI and fMRI for Presurgical Brain Tumor Planning</i> Whitney Pope, MD, PhD: <i>Advanced Imaging Assessment of Adult HGG Treatment Response</i></p>
2:30-3:00 pm	Clinical Update Session (Non-CME)
3:00-3:15 pm	Break
3:15-4:15 pm	<p>Symposium Session: Bridging New Horizons of Innovation & Practice in Adult Brain Tumors</p> <p>Rajan Jain, MD: <i>Adult Brain Tumor Treatment Complications:</i> Michael J. Evans, PhD: <i>Ferronostics: Measuring Tumoral Ferrous Iron with PET Predicts Sensitivity of Glioma to Iron-Targeted Cancer Therapies</i> Duane A. Mitchell, MD, PhD: <i>Principles of Immunotherapy in Brain Tumors</i> Daniel Orringer, MD, FAANS: <i>Novel Neurosurgical Translational Therapeutics</i></p>
4:15-5:15 pm	<p>Symposium Session: Pediatric Brain Tumor Molecular & Imaging Evaluation</p> <p>Paul A. Northcott, PhD: <i>The Molecular, Cellular, and Biological Basis of Medulloblastoma</i> Zoltan Patay, MD, PhD: <i>Imaging of Embryonal Tumors</i> Arastoo Vossough, MD, PhD: <i>Pediatric Supratentorial Gliomas: Imaging Update</i> James L. Leach, MD: <i>Pediatric Brainstem Tumor Imaging: What You Need to Know</i></p>
5:15-6:15 pm	<p>Symposium Session: Pediatric Brain Tumor Treatment, Effects and Associations</p> <p>Thomas Merchant, DO PhD: <i>State of the Art Radiation Therapy for Pediatric CNS Tumors</i> Benita Tamrazi, MD: <i>Pediatric Brain Tumor Complications</i> Nicole Ullrich, MD, PhD: <i>Cancer Predisposition Syndromes Associated with Development of CNS Tumors</i> Thierry Huisman, MD: <i>Pediatric Brain Tumor Mimics</i></p>

SUNDAY, MAY 23

7:55 am	Welcome Remarks
8:00-9:00 am	Symposium Session: Artificial Intelligence Neuro-Oncologic Applications Rivka R. Colen, MD: <i>Radiogenomics in Brain Tumors</i> Kristen W. Yeom, MD: <i>Artificial Intelligence and Pediatric Brain Tumors</i> Christopher G. Filippi, MD: <i>Artificial Intelligence and Imaging Glioma Heterogeneity</i> Adam Flanders, MD: <i>Artificial Intelligence Applications in Spine Oncology</i>
9:00-10:00 am	Clinical Update Session: Guerbet (Non-CME)
10:00-10:30 am	Break
10:30 am-12:00 pm	Symposium Session: Head & Neck Neuro-Oncologic Imaging Claudia F.E. Kirsch, MD: <i>Virus-Induced Cancers: Role of HPV and EBV in H&N Cancer</i> Ashok Srinivasan, MD: <i>Diffusion Confusion: Unrestricting the Role of DWI in Head and Neck Cancer</i> Remy R. Lobo, MD: <i>Perfusion Imaging in H&N Cancer</i> Tanya J. Rath, MD: <i>PET in H+N Cancer: FDG and DOTATATE</i> Caroline Robson, MBChB: <i>Unique Considerations in Pediatric H&N Cancer</i> Laurie A. Loevner, MD: <i>The Patient Experience of H&N Cancer</i>
12:00-12:30 pm	Mind and Body Wellness: Do You Know How to Sit? Office Yoga and Ergonomics <i>Instruction by Achala Vagal, MD, MS</i>
12:30-1:00 pm	Break
1:00-1:30 pm	Symposium Speaker: Cancer Disparities & COVID-19 Johnson B. Lightfoote, MD, FACR: <i>Introduction</i> Otis W. Brawley, MD, MACP, FASCO, FACE: <i>Cancer Disparities & COVID-19</i>
1:30-3:00 pm	Symposium Session: Bridging Innovation and Practice in Spine Neuro-Oncologic Imaging Matthew J. Barkovich, MD: <i>Pediatric Spine Tumors</i> Michele H. Johnson, MD, FACR, FASER: <i>Adult Spine Tumors</i> Wende Gibbs, MD: <i>Metastatic Spine Oncologic Imaging (SINS)</i> John H. Shin, MD: <i>Surgical Spine Oncology</i> Jack Jennings, MD, PhD: <i>Interventional Spine Oncology</i> Meng Law, MD: <i>Advances in Spinal Oncologic Imaging</i>
3:00-3:45 pm	Clinical Update Session: Philips (Non-CME)
3:45-4:00 pm	Break
4:00-5:00 pm	Symposium Session: Interventions in Neuro-Oncology and Metastatic Disease Assessment James M. Milburn, MD: <i>Endovascular Interventions in Neuro-Oncology</i> Priscilla K. Brastianos, MD: <i>The Molecular Drivers of Brain Metastases</i> Timothy Kaufmann, MD, MS: <i>Beyond Nihilism: Imaging Brain Metastases</i> Pamela W. Schaefer, MD: <i>Adult Brain Tumor Mimics</i>
5:00-6:00 pm	Symposium Session: Bridging Future Horizons in Neuro-Oncologic Imaging Robert J. McDonald, MD, PhD: <i>Update on Gadolinium Chelates: Practice & Future Directions</i> E. Antonio Chiocca, MD, PhD, FAANS: <i>Future Horizons in Brain Tumor Neurosurgical Interventions</i> Bruce R. Rosen, MD, PhD: <i>Neuroimaging Future Horizons</i>
6:00-7:15 pm	Wine Tasting 101: Tips and Sips with a Neuro-Somm <i>Additional registration fee applies</i>

MONDAY, MAY 24

8:25 am	Welcome Remarks		
8:30-9:30 am	Global Neuroradiology Outreach During COVID19 & Beyond Kristen DeStigter, MD: <i>Radiology and Global Health</i> Bruno Policeni, MD, MBA: <i>ASNR International Collaborations</i> Bhavya Rehani, MD: <i>Innovation in Global Outreach in Neuroradiology (with William Dillon)</i> William P. Dillon, MD: <i>Innovation in Global Outreach in Neuroradiology (with Bhavya Rehani)</i> Frank Minja, MD: <i>Outreach to Address the Global Neuroradiology Gap</i>	ASHNR Programming: Head and Neck Emergencies: Be on the Lookout! (SA-CME, Essentials) Mary Beth Cunnane MD: <i>Orbit Emergencies</i> Philip R. Chapman, MD: <i>Neck/Pharynx/Airway Emergencies</i> Blair Winegar, MD: <i>Temporal Bone/Skull Base Emergencies</i>	ASFNR Programming: AI Elizabeth Tong, MD: <i>Introduction to AI in Neuroradiology</i> Ona Wu, PhD: <i>Fairness and Ethics of AI in Neuroradiology</i> Sam Payabvash, MD: <i>Applications in Neuroimaging with a Focus on Stroke</i>
9:30-10:30 am	Keynote Address: Anne G. Osborn, MD: <i>Neuroradiology: From the Chop House to the Chopping Block? Introduction by TBD</i>		
10:30-11:30 am	Clinical Update Session: RapidAI (Non-CME)		
11:00 am-2:00 pm	Exhibit Hall – Lunch on Us!		
11:30 am-12:00 pm	Break		
12:00-1:00 pm	Education Committee Programming: Neuroradiology Education (SA-CME, Essentials) Ryan B. Peterson, MD: <i>Lessons Learned: Virtual Teaching Conferences Do's and Don'ts</i> John-Paul J. Yu, MD, PhD: <i>Reactions from the Virtual Recruitment Experience</i> Jennifer McCarty, MD: <i>ASNR.org and Education: How to Maximize a Goldmine of Content for Trainees</i> Achala Vagal, MD, MS: <i>"Have Any Projects for Me?": How to Mentor Students and Residents Looking for Scholarly Activity</i>	EBM Committee Programming: Emerging Neuroimaging Techniques: What is the Evidence for Adoption? Kirk M. Welker, MD: <i>7T MRI for Brain Disease</i> Mai-Lan Ho, MD: <i>fMRI for Diagnosis and Treatment Planning in Epilepsy</i> J. Levi Chazen, MD: <i>MR-guided Focused Ultrasound in Neurological Disorders</i> Cyrus A. Raji, MD, PhD: <i>Tau Imaging and Emerging Imaging Strategies for Alzheimer's Disease</i>	ASHNR Programming: What's That You Say? Imaging of Hearing Loss (SA-CME) Karen Moeller, MD: <i>Syndromic Hearing Loss</i> Karen L. Salzman, MD: <i>Sensorineural Hearing Loss in the Adult</i> John (Jack) I. Lane, MD: <i>Conductive Hearing Loss in the Adult</i>
1:00-1:30 pm	ASNR & FASNR Awards		
1:30-2:00 pm	Break		
2:00-2:45 pm	Clinical Update Session: Canon (Non-CME)		

2:45-4:15 pm	Education Committee Programming: Post-Symposium Basics and Essentials of Neurooncology 1 (SA-CME, Essentials) Haris Sair, MD: <i>Preoperative Brain Tumor Assessments- fMRI, DTI, PWI</i> Steven Messina, MD: <i>Intraoperative Imaging: How We Can Help?</i> Michael Iv, MD: <i>Postoperative Brain: Expected vs. Unexpected Findings</i> Pamela S. Jones, MD, MS, MPH: <i>Ask a Neurosurgeon: Questions You Always Were Afraid to Ask</i>	Young Professionals Programming: Bridging the Gap - Interactive Negotiation Workshop Jenny Hoang, MBBS, MHS, MBA: <i>Negotiation Tips for Success</i> <i>Interactive Breakout Groups</i>	Health Policy Committee Programming: New Horizons of Cost Transparency Vivian S. Lee, MD, PhD, MBA: <i>The Long Fix: Using Data to Improve Health and Healthcare</i> Jonathan Breslau, MD, FACR: <i>The Argument Against Price Transparency</i> Mike Thompson: <i>The Need for Price Transparency: The Purchasers Perspective</i> Suresh K. Mukherji, MD: <i>The 6 "Ps" of Healthcare and Future of Price Transparency, Reference Pricing and Surprise Billing as it Relates to Radiology</i>	ASPNR Programming: Pediatric CNS Oncology Stavros Stivaros MD: <i>Optic Pathway Gliomas: Approach to Imaging and Which Findings Make a Difference</i> Aashim Bhatia, MD, MS: <i>Medulloblastomas: Genomics, Imaging Correlates, and Prognostic Significance</i> Jason N. Wright, MD: <i>Craniopharyngioma: Presentation and Treatment Approaches</i> Pim de Graaf, MD, PhD: <i>Retinoblastoma: Imaging, Relevant Findings and How to Determine Optic Nerve Invasion</i>	SILAN Programming Juan Pablo Cruz, MD: <i>Imaging of Cord Tumors</i> Francisco Rivas-Rodriguez, MD: <i>Imaging of Intradural Extramedullary Tumors</i> Renato Hoffmann Nunes, MD: <i>Conventional and Advanced Imaging Techniques in the Assessment of Spine Tumors and Post-treatment Changes</i> Orlando Ortiz, MD, MBA, FACR: <i>Oncologic Indications for Minimally Invasive Treatment</i>
4:15-4:30 pm	Break				
4:30-6:00 pm	Education Committee Programming: Post-Symposium Basics and Essentials of Neurooncology 2 (SA-CME, Essentials) Jana Ivanidze, MD, PhD: <i>Avast There Avastin!: Pseudoresponse and Pseudoprogression</i> Christopher Hess, MD, PhD: <i>Consensus Statements regarding Neurooncology MRI Protocols</i> Ramon F. Barajas Jr., MD: <i>Monoclonal Antibodies, Viruses and Vaccines: Imaging Considerations</i> Alyx B. Porter, MD, FAAN: <i>Ask a Neurooncologist: Questions You Always Were Afraid to Ask</i>	Diversity & Inclusion Committee Programming: Health Equity and Health Disparities in the US: Current Status and Future Trends Richard T. Benson, MD, PhD: <i>Health Equity, Health Disparities, and Patient-Centered Care: Current and Future Trends</i> Consuelo Hopkins Wilkins MD, MSCI: <i>Racism as a Public Health Problem and Potential Targets to Advance Health Equity</i> Ruth C. Carlos MD, MS, FACR: <i>Financial Toxicity, Social Inequality and Health Disparities: Why Radiologists Should Care About Health Equity</i> Efren Flores, MD: <i>Health Equity and Healthcare as a Right: Social Determinants of Disease and Vulnerable Populations</i>	ASPNR Programming: Pediatric Neuroradiology Interesting Case Session (SA-CME) <i>Cases presented by:</i> Laurence J. Eckel, MD V. Michelle Silvera, MD Susan Palasis, MD Paul Caruso MD Edward Yang MD	ASHNR Programming: Put That One Back in the Stack: Post-Treatment H+N Imaging (SA-CME) Barton F. Branstetter IV, MD, FACR, FSIIM: <i>Post-Treatment Neck</i> Michael P. Bazylewicz, MD: <i>NI-RADS: Take the Plunge</i> Kim O. Learned, MD: <i>Post-Treatment Skull Base</i> Gul Moonis, MBBS: <i>Post-Treatment Temporal Bone</i>	
6:00-7:30 pm	ASNR's Got Talent!				

TUESDAY, MAY 25

7:55 am	Welcome Remarks			
8:30-9:30 am	Education Committee Programming: Brain Essentials 1 (SA-CME, Essentials) <i>Starts at 8:00 am</i> Harprit S. Bedi, MD: <i>Adult Brain Tumors</i> Joshua P Nickerson, MD: <i>Post-treatment Brain Imaging</i> Pina C. Sanelli, MD, MPH, FACR: <i>Head Trauma</i> Mauricio Castillo, MD, FACR: <i>Stroke Imaging</i>	ASSR Programming: Degenerative Disease of the Cervical and Lumbar Spine (Essentials, SA-CME) Miriam Peckham, MD: <i>Anatomy and Nomenclature of Lumbar Degenerative Disease</i> Jeffrey Ross, MD: <i>Anatomy and Nomenclature of Cervical Spondylosis</i> Allison Grayev, MD: <i>Important Features of Mechanical Instability and Facet Degeneration</i>	SNIS Programming: Critical Gaps in Evidence for Neurointervention Jeremy Heit, MD, PhD: <i>Posterior Circulation Thrombectomy</i> Catherine Amlie-Lefond, MD: <i>Pediatric Stroke Intervention</i> David Fiorella, MD: <i>Subdural Hematoma Embolization</i>	
9:30-10:30 am	Keynote Address: A. James Barkovich, MD: <i>New Concepts of Malformations and Molecular Pathways Introduction by TBD</i>			
10:30-11:30 am	Clinical Update Session: Northwest Imaging, supported by an Educational Grant from Bracco			
11:00 am-2:00 pm	Exhibit Hall			
11:30 am-12:00 pm	Break			
12:00-1:00 pm	COVID-19 Central Nervous System Effects Serena Spudich, MD: <i>Neuropathogenesis and Neurologic Manifestations of COVID-19</i> Byung C. Yoon, MD, PhD: <i>CNS Imaging Manifestations of COVID-19 in Adults</i> Camilla Lindan, MD: <i>CNS Imaging Manifestations of COVID-19 in Children</i>	ASSR Programming: Spine Imaging and Intervention: Bridges to Innovation from Bench to Practice Eric D. Schwartz, MD: <i>Innovations in Spine Imaging: Immediate Opportunities for Positive Change</i> Ichiro Ikuta, MD, MMSc: <i>Innovative Applications of AI in Spine Imaging: Protocol Optimization</i> Prof. Luigi Manfrè: <i>Innovations in Spine Intervention: Focus on Spinal Stenosis</i> Ajay Malhotra, MD: <i>Comparative Effectiveness Research in Spine Imaging and Intervention</i>	ASPNR Programming: CNS Spectrum of Pediatric Conditions (SA-CME, Essentials) Kshitij Mankad, MD: <i>Confused? (Brain, Encephalitis)</i> Hisham Dahmouh, MBBCh: <i>I Have a Bump on My Head! (Head and Neck: Skull)</i> William T. O'Brien, Sr., DO, FAOCR: <i>My Neck is Swollen! (Head and Neck, Infections)</i> Stephen F. Kralik, MD: <i>It's a Pain in My Back (Spine: Non-tumoral Spine Conditions)</i>	Cervical and Intracranial Vessel Wall Imaging Study Group Programming Bruce Wasserman, MD: <i>Review of VWI Study Group Activities</i> David Saloner, MD: <i>Update on Aneurysm Growth and Enhancement Study (AGES)</i> <i>Power Pitch Presentations:</i> Nick Stence, MD: <i>Pediatric VWI</i> Zhaoyang Fan, PhD: <i>Machine Learning in Vessel Wall Imaging</i> Laura B. Eisenmenger, MD: <i>Vessel Wall imaging of AVMs and Aneurysms</i> Maria Altbach, PhD: <i>Quantitative Vessel Wall Mapping</i> Danny Mandell, MD: <i>The Role of VWI in Acute Stroke and its Integration into Workflow</i> <i>Vendor Presentations</i> John Grinstead PhD: <i>Siemens</i> Kim van de Ven, PhD: <i>Philips</i> Suchandrima Banerjee, PhD: <i>GE</i> Bruno Triaire: <i>Canon</i>

1:00-1:30 pm	Mind and Body Wellness: Do You Know How to Breathe? Practical Tips to Harness the Power of Breath <i>Instruction by Achala Vagal, MD, MS</i>				
1:30-2:00 pm	Break				
2:00-2:45 pm	Clinical Update Session (Non-CME)				
2:45-4:15 pm	Education Committee Programming: Brain Essentials 2 (SA-CME, Essentials) Howard A. Rowley, MD: <i>Neurodegenerative Disease</i> Nancy Fischbein, MD: <i>Intracranial Infection</i> Amy Kotsenas, MD, FACR: <i>Alphabet Soup: Uses for DWI, DTI, DSC, MRS, fMRI, SWI</i> Richard Wiggins, MD: <i>Brain Cases Game</i>	Young Professionals Programming: Bridging Relationships and Responding to Inappropriate Behavior <i>Bystander Vignettes:</i> Harprit S. Bedi, MD Nolan Kagetsu, MD, FACR Michele Johnson, MD, FACR, FASER Erin Simon Schwartz, MD, FACR John E. Jordan, MD, MPP, FACR Amy Juliano, MD David McIntosh, PhD, MA: <i>Didactic Strategies</i>	Computer Science/Informatics Committee Programming: Machine Learning: Promises, Practice, and Pitfalls Peter D. Chang, MD: <i>Overview of AI and ML for Neuroradiologists</i> Vishal Patel, MD, PhD: <i>Planning and implementing AI Projects: Addressing Bias in Big Data</i> Andreas Rauschecker, MD, PhD: <i>Clinical Neuroradiology Applications of AI: New and Notable Algorithms</i> Woojin Kim, MD: <i>Mining for AI Gold with Natural Language Processing</i> Luciano Prevedello, MD, MPH: <i>AI Data Commodization: Who Owns Your data?</i> James Y. Chen, MD: <i>Brave New World: Non-imaging AI for Wellness and Productivity</i>	SNIS Programming: Diagnostic Neuroradiologist Reporting in Neurointerventional Patients (SA-CME) Colin P. Derdeyn, MD: <i>Reporting Aneurysms</i> Manu S. Goyal, MD, MSc: <i>Reporting Large Vessel Occlusion Stroke</i> Steven W. Hetts, MD: <i>Reporting AVM, dAVF, and CCF</i> A. Rano Chatterjee, MD: <i>Reporting Vessel Wall Imaging</i>	ESNR Programming: Update in Neurooncology Leland S. Hu, MD: <i>Advanced Imaging of Gliomas Including AI and CNN to Predict MGMT, IDH Mutations and EGFR Amplification</i> Geir Ringstad, MD, PhD: <i>Glymphatic MRI: CSF Tracers to Assess Human Brain Extra-vascular Pathways, Helping Understand Glioma Spread</i> Anouk van der Hoorn: <i>Effects of Radiotherapy on Healthy Brain Tissue, an Imaging Overview</i> Pia Sundgren, MD, PhD: <i>Response Assessment in Neuro-oncology (RANO) Criteria for Gliomas, a Practical Approach</i>
4:15-4:30 pm	Break				
4:30-6:00 pm	Health Policy Committee Programming: The J. Arliss Pollock Memorial Lecture: Reproducible and Useful Research: Images of the Present and Imagining the Future (SA-CME) David Seidenwurm, MD: <i>Introduction</i> John Ioannidis: <i>The 2021 J. Arliss Pollock Memorial Lecture: Reproducible and Useful Research: Images of</i>	Computer Science/Informatics Committee Programming: Pandemic Adaptations for Distance Education and Clinical Neuroradiology Consultations (SA-CME) Nicholas A. Koontz, MD: <i>Introduction to Disruptive Technologies for Neuroradiology</i> Luke Ledbetter, MD: <i>Effective Consulting and Clinical</i>	ASSR Programming: Craniovertebral Junction: Chiari, Spontaneous Intracranial Hypotension and Syringohydromyelia (SA-CME) Roy Riascos, MD: <i>Anatomy of the Craniovertebral Junction</i> Karuna Shekdar, MD: <i>Chiari Malformation</i> Timothy J. Amrhein, MD: <i>Spontaneous Intracranial</i>	ASHNR Programming: Tough Topics in Head & Neck Imaging Lawrence E. Ginsberg, MD: <i>Perineural Spread of Tumor: Basic and Advanced</i> Bidyut K. Pramanik, MD: <i>Brachial Plexus: Imaging Technique, Anatomy,</i>	AOSNHNR Programming: AI and Radiomics Research in Asia/Oceania Ji Eun Park, MD, PhD: <i>AI and Radiomics in Brain Tumor: From Research to Clinical Workflow</i> Varut Vardhanabhuti: <i>Artificial intelligence and Radiomics</i>

	<p><i>the Present and Imagining the Future</i> Suresh K. Mukherji, MD: <i>Epidemiology of Head and Neck Cancer</i></p>	<p><i>Staffing During Pandemic and Beyond</i> Judith A. Gadde, DO, MBA: <i>Leveraging SoMe for Your Neuroradiology Practice: Best Practices for Social Media</i> Jay Acharya, MD: <i>Distance Learning/Education: Best Strategies</i> John L. Go, MD: <i>Home Workstations: How Good is Good Enough?</i></p>	<p><i>Hypotension</i> Lubdha Shah, MD: <i>Syringohydromyelia</i></p>	<p><i>Pathology</i> Hillary Kelly, MD: <i>A No Sweat Approach to Imaging in Horner's Syndrome</i> Kristen Baugnon, MD: <i>Idiopathic Intracranial Hypertension: Clues from H&N/Skull Base Imaging</i></p>	<p><i>in Head and Neck Cancer</i> Wan Yuo Guo: <i>Device-Agnostic AI Model for Brain Metastasis: Deep Active Learning over A Nationwide Population-based Medical Image Database</i> Daiju Ueda: <i>Deep Learning for Cerebral Aneurysm Diagnosis and Treatment</i></p>
6:00-7:00 pm	Fellowship Mentoring Reception				

WEDNESDAY, MAY 26					
8:00-8:25 am	ASNR Annual Business Meeting				
8:25 am	Welcome Remarks				
8:30-9:30 am	<p>Health Policy Committee Programming: Payment Policy Update Colin Segovis, MD, PhD, MRMD (MRSC): <i>CPT Update</i> Melissa Chen, MD: <i>RUC update and the impact of the E&M revisions</i> Ryan K. Lee, MD: <i>This Year's Model: QPP - MACRA, MIPS, and APMs</i></p>	<p>SNIS Programming: Frontiers in Neurointervention Aquila S. Turk, DO: <i>Robotically Assisted Neurointervention</i> Joshua W. Osbun, MD, FAANS, FACS: <i>Novel Routes of Access</i> Thomas J. Oxley, MD: <i>Endovascular Brain-Computer Interface</i> Dheeraj Gandhi, MBBS: <i>Focused Ultrasound for Minimally Invasive Neurointerventions</i> John-Paul J. Yu, MD, PhD: <i>Interventional Treatment of Psychiatric Disease</i> Justin F. Fraser, MD: <i>Blood and Clot Research in Thrombectomy</i> Mayank Goyal, MD: <i>Neuroprotection in Stroke</i></p>	<p>ASFNR Programming: PET-MRI in Neuroradiology Ramon F. Barajas Jr., MD: <i>Brain Tumors: Is the Time for MR/PET Here?</i> Tammie Benzinger, MD, PhD: <i>Tau imaging in Dementia</i> Udunna Anazodo, PhD: <i>15O-water PET/MRI in Neurological Disorders</i></p>	<p>Virtual Wellbeing Retreat Darshan Mehta, MD, MPH: <i>Wellness Overview</i> Aarti Sekhar, MD: <i>Workforce Resilience Panel Discussion:</i> Matthew Bucknor, MD Achala Vagal, MD, MS Hillary R. Kelly, MD Matt Haber, MD</p>	
9:30-10:30 am	Keynote Address: Geraldine B. McGinty, MD, MBA, FACR: <i>Bridging New Horizons of Radiology Leadership Introduction by TBD</i>				
10:30-11:30 am	Clinical Update Session: Biogen (Non-CME)				
11:00 am-2:00 pm	Exhibit Hall – Resource Scavenger Hunt				
11:30 am-12:00 pm	Break				

12:00-1:00 pm	Young Professionals Programming: New Horizons in Work-from-Home Erin Simon Schwartz, MD, FACR: <i>Work from Home: Confronting and Conquering the Challenges</i> Ashley H. Aiken, MD: <i>Work from Home: Identifying and Capitalizing on the Opportunities</i> Courtney Tomblinson, MD: <i>Distance Teaching: Strategies for Success</i>	Computer Science/Informatics Committee Programming: New Frontiers of Neuroradiology: A California Gold Rush of Informatics and Workflow Improvements (SA-CME) Reza Forghani, MD, PhD: <i>Darkroom to the Dark Web: Cybersecurity, Ransomware, and Blockchain for Radiologists</i> C. Jason Liu, MD, PhD: <i>Hardening Your Practice to Threats: Practical Hardware, Software and Encryption Best Practices</i> Lex A. Mitchell, MD: <i>Ergonomics for Home, Remote and Return to the Office</i> Ayis Pyrros, MD: <i>Maximizing Connectivity and Security from Home: Don't Leave Home (Without It)</i> Sanjay P. Prabhu, MBBS, FRCR: <i>3D Printing Update: New Techniques, Clinical Applications, New Registry and ICD10 Codes</i>	ASPNR Programming: #IWannaKnowMoreAboutThisTopic Sumit Pruthi MD: <i>Pediatric Myelin Oligodendrocyte Glycoprotein (Mog) Antibody Disease: What Is It and When to Consider</i> P. Ellen Grant, MD: <i>The Basis of Parenchymal Injury in Infants with Abusive Head Trauma</i> David M. Mirsky, MD: <i>CNS Hemophagocytic Lymphohistiocytosis (HLH) and Other Non-LCH Histiocytoses</i> Susan Blaser, MD, FRCP(C): <i>Diagnostic Approach to Vermian Hypoplasia, a Common Imaging Indication and Significance</i>	IHIWG Programming: Advances in Understanding of CSF Subarachnoid Space Anatomy: Application to CNS Disease Diagnostics and Drug Delivery Ari Blitz, MD: <i>High Resolution MRI Anatomy of the Intracranial and Spinal SAS</i> Geir Ringstad, MD, PhD: <i>Methods for MRI Visualization of CSF Flow and Solute Transport</i> Bryn Martin, PhD: <i>Computational and In Vitro Modeling of CSF Drug Delivery and Filtration</i> Pat McAllister: <i>Experimental Methods to Test CSF Solute Transport</i>	
1:00-2:00 pm	Break				
2:00-2:45 pm	Clinical Update Session (Non-CME)				
2:45-4:15 pm	EBM Committee Programming: Intracranial Vessel Wall Imaging: What is the Evidence? Jae Song, MD, MS: <i>Intro to Intracranial VWI Imaging Technique/How-to's/Basic Image Interpretation</i> Daniel Mandell, MD: <i>Evidence for Intracranial VWI in Cryptogenic Stroke and Vasculopathy</i> Myriam Edjlali-Goujon, MD, PhD: <i>Evidence for Intracranial VWI in Evaluation of Aneurysms</i> Hediyeh Baradaran, MD:	ASSR/SNIS Programming: Soft Bones: Osteoporosis and Metabolic Bone Disease, Who and How Do We Treat (SA-CME) Andrea Singer, MD: <i>Pathophysiology and Medical Management of Osteoporosis and Metabolic Bone Disease</i> Jeffrey G. Jarvik, MD MPH: <i>Current Evidence for Vertebral Augmentation in Benign Disease</i> Expert Panel Case Presentations with Audience Participation Dan T.D. Nguyen, MD Douglas P. Beall, MD Jeffrey Stone, MD, FACR	ASPNR Programming: Everything You Need to Know About fMRI and DTI for Preoperative Planning (SA-CME, Essential Track) Behroze Vachha, MD, PhD: <i>Task-fMRI for Preoperative Planning</i> Shruti Agarwal, PhD: <i>Resting State fMRI in Preoperative Planning</i> Rupa Radhakrishnan, MBBS, MS: <i>Special Considerations in Pediatric Functional MRI</i> Erik Middlebrooks, MD: <i>Diffusion Tensor Imaging for Preoperative Planning</i>	IHIWG Programming: Magnetic Resonance Elastography: Applications to Hydrocephalus and Beyond Philip Bayly: <i>MR Elastography – Applications Current and Future</i> Lynne Bilston, PhD: <i>Cellular Correlates of Brain Stiffness Measured by MRE</i> Mark Wagshul, PhD: <i>MRE in Pediatric Hydrocephalus</i> John Huston, MD: <i>MRE in NPH: Differentiating Normal Pressure Hydrocephalus from Alzheimer's Disease</i>	CSNR Programming: Microskills of Neuroradiology Interpretation Elysa Widjaja, MD: <i>Is There Focal Cortical Dysplasia?</i> Mojgan Hodai, MD: <i>Is There Neurovascular Compression?</i> Marco Essig, MD, PhD: <i>Is it Radiation Necrosis?</i> Sapna Rawal, MD, PhD: <i>Does this Patient Have Neurodegenerative Disease?</i>

	<i>Evidence for Intracranial VWI for Atherosclerosis Characterization</i>	Cynthia T. Chin, MD Mary E. (Lee) Jensen, MD Anousheh Sayah, MD			
4:15-4:30 pm	Break				
4:30-6:00 pm	EBM Committee Programming: Imaging of Headache – What is the Evidence? (SA-CME, Essentials)	ASFNR Programming: Perfusion Imaging: Let’s Make It An Essential Part of Your Practice (SA-CME)	SNIS Programming: Evidence-based Review of Neurointervention (SA-CME, Essentials)	Imaging Genomics and Radiomics Study Group Programming	Clinical Translation of Functional and Diffusion MRI Study Group Programming
	John E. Jordan, MD, MPP, FACR: <i>Why We Continue to Image Patients with Headache</i> Amit Saindane, MD, MBA: <i>Diagnosis of Intracranial Hypertension: How Good Are We?</i> Carrie Carr, MD: <i>Not Chiari. It’s Intracranial hypotension: How to Differentiate</i> Nadja Kadom, MD: <i>Imaging of Pediatric Deadache: What is the Appropriate Criteria?</i>	Greg Zaharchuk, MD: <i>Starting your Perfusion Service: When and How to Implement DSC, ASL and IVIM</i> Kambiz Nael, MD: <i>Stroke Perfusion: Beyond the Acute Stroke Work-up</i> Chad Quarles, PhD: <i>Tumor Perfusion: Beyond the Vascular Compartment and Diagnosis</i> David Alsop, PhD: <i>Novel Applications of Perfusion Imaging</i>	Akash P. Kansagra, MD, MS: <i>Evidence in Stroke Intervention</i> Guilherme Dabus, MD: <i>Evidence in Aneurysm Treatment</i> Philip M. Meyers, MD: <i>Evidence in Arteriovenous Malformation Treatment</i> Waleed Brinjikji, MD: <i>Evidence Based Carotid Disease Treatment</i> John D. Barr, MD, FACR, FSIR, FAHA, FSNIS: <i>Evidence in Spine Intervention</i>	Ramon F. Barajas Jr., MD: <i>Introduction</i> Mariam Aboian, MD, PhD: <i>Practical Aspects of Radiomics</i> Cymon Kersch, MD, PhD: <i>Leveraging Big Data in Undertaking Imaging Genomics Projects</i> Javier Villanueva-Meyer, MD: <i>Does Imaging Genomics/Radiomics Add Clinical Value</i>	Anders Dale, PhD: <i>Resting State fMRI Data Collection in the ABCD Consortium</i> Emily Finn, PhD: <i>Toward a 'Stress Test' for the Brain: Targeted Task Conditions Increase Sensitivity to Individual Differences in Functional Connectivity</i> Damien Fair, PhD: <i>Methods and Challenges for Assessing Heterogeneity</i>

ALL BROADCAST TIMES ARE LISTED IN U.S. CENTRAL DAYLIGHT TIME (UTC-5)