Walk Through the Week

Sunday, Dec. 1, 2019

Case of the Day
Neuroradiology Sunday Case of the Day
Session ED009-SU . . . . . . . Case of Day, Learning Center

10:30 AM–12:00 PM
Educational Courses
RSNA AI Deep Learning Lab: Beginner Class: Classification Task (Intro)
Session SPAI11 . . . . AI Showcase North Building Level 2

10:45 AM–12:15 PM
Scientific Papers Sessions
Science Session with Keynote: Molecular Imaging (Neuroimaging)
Session SSA13 . . . . . . . . . . . S503AB
Neuroradiology (Stroke 1)
Session SSA17 . . . . . . . . . . . S501ABC
Neuroradiology (Brain Tumors 1)
Session SSA18 . . . . . . . . . . . S401CD
Neuroradiology/Head and Neck (Head and Neck Tumors)
Session SSA19 . . . . . . . . . . . S404AB

10:45 AM–12:15 PM
Educational Courses
Pediatric Series: Pediatric Neuroradiology
Course VSPD11 . . . . . . . . . . . . E451B

12:30–1:00 PM
Posters and Exhibits: Discussions
Neuroradiology Sunday Poster Discussions
Session NRS-SUA . . . . . . NR Community, Learning Center

1:00–2:30 PM
Educational Courses
RSNA AI Deep Learning Lab: Segmentation
Session SPAI12 . . . . AI Showcase North Building Level 2

1:00–1:30 PM
Posters and Exhibits: Discussions
Neuroradiology Sunday Poster Discussions
Session NRS-SUB . . . . NR Community, Learning Center

Accreditation and Designation Statements
The Radiological Society of North America (RSNA®) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The RSNA designates this live activity for a maximum of 94.00 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Commission on Accreditation of Medical Physics Education Program (CAMPEP) has approved the direct transfer of AMA PRA Category 1 Credit™ to MPCEC on a credit-for-credit basis for medical physicists.

Corporate Symposium
Please refer to each course description in the online program to determine if CME credit is offered for the session. Instructions on claiming credit will be provided during the course. CME credit for the Corporate Symposia will be provided through a third-party provider and not through RSNA.

Program information is subject to change. For the most up-to-date information, please use your Meeting App or visit Meeting.RSNA.org.
1:00–1:20 PM
Showcase Presentations
RSNA AI Theater: Comparing Advanced MRI Acquisition Acceleration Methods: Compressed Sensing versus AI-based Iterative Image Reconstruction: Presented by Medic Vision
Session Ai16 . . . . . . AI Showcase North Building Level 2

2:00–3:30 PM
Educational Courses
Practical and Advanced Spine Imaging
Course RC105 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . N229
Bread and Butter Sinus Imaging: Telling Your Referrers What They Need to Know
Course RC106 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E451B
Emerging Technology: Imaging of Dementias and Movement Disorders Update 2019
Course RC117 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S504CD
What’s New in the Treatment of Brain Metastases?
Course RC120 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S501ABC
Hands-on Artificial Intelligence for Non-coders: How is an Intracranial Hemorrhage Detection Algorithm Created? (Hands-on)
Course RCA12 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB

4:00–5:45 PM
Plenary Sessions
Sunday Afternoon Plenary Session
Session PS12 . . . . . . . . . . . . . . . . . . . . . . . . . . . . Arie Crown Theater

Monday, Dec. 2, 2019

Case of the Day
Neuroradiology Monday Case of the Day
Session ED009-MO . . . . . . Case of Day, Learning Center

8:30–10:00 AM
Educational Courses
Case-based Review of Neuroradiology (Interactive Session)
Course MSCN21 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S100AB
BOOST: Head and Neck-Anatomy and Treatment Planning (Interactive Session)
Course MSRO21 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S402AB
The Basics of Upper Aerodigestive Tract Anatomy and Pathology
Course RC206 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E451A
Thyroid Sonography: At a Tipping Point
Course RC210 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E351

8:30 AM–12:00 PM
Educational Courses
Neuroradiology Series: AI in Neuroradiology
Course RC205 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S406B

9:00–10:30 AM
Corporate Symposium
Hot Topics in Contrast-Enhanced MRI: Presented by Northwest Imaging Forums, educational grant provided by Bracco Diagnostics, Inc.
Session CS21 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S101AB

10:30 AM–12:00 PM
Scientific Papers Sessions
Neuroradiology (Diffusion/Perfusion)
Session SSC10 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S502AB
Neuroradiology (Spine)
Session SSC11 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S504CD
Science Session with Keynote: Radiation Oncology (CNS Malignancies)
Session SSC14 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E261

12:15–12:45 PM
Posters and Exhibits: Discussions
Neuroradiology Monday Poster Discussions
Session NRS-MOA . . . . . . NR Community, Learning Center

12:45–1:15 PM
Posters and Exhibits: Discussions
Neuroradiology Monday Poster Discussions
Session NRS-MOB . . . . . . NR Community, Learning Center

1:30–2:30 PM
Educational Courses
BOOST: H&N/CNS
Course MSRO23 . . . . . . . . . . . . . . . . . . . . . . . . . . . S103AB
1:30–3:00 PM
Educational Courses
Molecular Imaging Symposium: Neurologic MI Applications
Course MSMI23 ........................................ S405AB

1:30–2:45 PM
Plenary Sessions
Monday Plenary Session
Session PS20 ........................................ Arie Crown Theater

2:00–2:20 PM
Showcase Presentations
RSNA AI Theater: Next-Generation Radiology AI: The Journey from an AI Algorithm to a Partner: Presented by Aidoc
Session AI28 ............ AI Showcase North Building Level 2

3:00–4:15 PM
Educational Courses
BOOST: Head and Neck-Case-based Multidisciplinary Review (Interactive Session)
Course MSRO24 .......................... S103AB

Tuesday, Dec. 3, 2019

Case of the Day
Neuroradiology Tuesday Case of the Day
Session ED009-TU ........... Case of Day, Learning Center

7:15–8:15 AM
Educational Courses
Houston, We Have a Problem (Case-based Competition)
Session SPDL30 ......................... E451B

8:30–10:00 AM
Educational Courses
Case-based Review of Nuclear Medicine: PET/CT Workshop-Head and Neck (In Conjunction with SNMMI) (Interactive Session)
Course MSCC31 ......................... E450B
How Do I Image That? Tips for Improving Challenging Head and Neck Protocols
Course RC306 ......................... E353C
Radiogenomics of GBM
Course RC320 ......................... N230B
Percutaneous Thoracic Interventions
Course RC331 ........................ S403A

8:30 AM–12:00 PM
Educational Courses
Neuroradiology Series: Brain Tumors
Course RC305 ......................... S406B

9:00–10:30 AM
Corporate Symposium
Creating Winning Workflows: Identifying Pain Points and Solutions within Radiology Workflow: Presented by Philips
Session CS31 ......................... S101AB

10:30 AM–12:00 PM
Educational Courses
Emerging Imaging Trends (Sponsored by the Associated Sciences Consortium) (Interactive Session)
Course MSAS32 ......................... S105AB

10:30 AM–12:00 PM
Scientific Papers Sessions
Neuroradiology (Cognition/Memory)
Session SSG10 ......................... N229
Neuroradiology (Stroke 2)
Session SSG11 ......................... N230B

Special Interest Session: The Best of Radiology in 2019-The Editors of Radiology Keep You Up to Date
Session SPSI21 ......................... N227B
Special Interest Session: Paths to Recovery: What Can Neuroimaging Teach Us about Depression and Its Treatment
Session SPSI25 ......................... N226
11:30–11:50 AM
**Showcase Presentations**
RSNA AI Theater: Putting Medical AI to Work - Delivering Intelligent, Efficient and Validated Solutions to the Workflow of Radiology: Presented by VUNO, Inc.
Session AI33 . . . . . . AI Showcase North Building Level 2

12:15–12:45 PM
**Posters and Exhibits: Discussions**
Neuroradiology Tuesday Poster Discussions
Session NRS-TUA . . . . NR Community, Learning Center

12:45–1:15 PM
**Posters and Exhibits: Discussions**
Neuroradiology Tuesday Poster Discussions
Session NRS-TUB . . . . . NR Community, Learning Center

1:00–2:30 PM
**Educational Courses**
RSNA AI Deep Learning Lab: Segmentation
Session SPAI32 . . . . AI Showcase North Building Level 2

2:30–4:00 PM
**Educational Courses**
Hands-on Artificial Intelligence for Non-coders: How is an Intracranial Hemorrhage Detection Algorithm Created? (Hands-on)
Course RCA34 . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB

3:00–4:30 PM
**Educational Courses**
RSNA AI Deep Learning Lab: Beginner Class: Classification Task (Intro)
Session SPAI33 . . . . AI Showcase North Building Level 2

3:00–4:00 PM
**Scientific Papers Sessions**
Nuclear Medicine (CNS Nuclear Medicine and PET)
Session SSJ17 . . . . . . . . . . . . . . . . . . . . . . . . . . S505AB
Neuroradiology (Traumatic Brain Injury)
Session SSJ18 . . . . . . . . . . . . . . . . . . . . . . . . . . S406B
Neuroradiology/Head and Neck (Image Analysis, Non-Artificial Intelligence)
Session SSJ19 . . . . . . . . . . . . . . . . . . . . . . . . . . S404CD
Neuroradiology (Stroke 3)
Session SSJ20 . . . . . . . . . . . . . . . . . . . . . . . . . . S404AB

3:30–5:00 PM
**Educational Courses**
Essentials of Trauma Imaging
Course MSES34 . . . . . . . . . . . . . . . . . . . . . . . S100AB

Wednesday, Dec. 4, 2019

**Case of the Day**
Neuroradiology Wednesday Case of the Day
Session ED009-WE . . . . . . Case of Day, Learning Center

8:30–10:00 AM
**Educational Courses**
Case-based Review of Pediatric Radiology (Interactive Session)
Course MSCP41 . . . . . . . . . . . . . . . . . . . . . . . E450B
The Radiology Hearing Loss and Tinnitus
Course RC506 . . . . . . . . . . . . . . . . . . . . . . . E353C
Emerging Technology: Dual-energy and Spectral CT Update 2019
Course RC517 . . . . . . . . . . . . . . . . . . . . . . . S505AB
Vertebral Augmentation (Hands-on)
Course RC550 . . . . . . . . . . . . . . . . . . . . . . . E260

8:30 AM–12:00 PM
**Educational Courses**
Neuroradiology Series: Stroke
Course RC505 . . . . . . . . . . . . . . . . . . . . . . . . . N228

10:30 AM–12:00 PM
**Educational Courses**
Case-based Review of Pediatric Radiology (Interactive Session)
Course MSCP42 . . . . . . . . . . . . . . . . . . . . . . . E450B
RSNA AI Deep Learning Lab: Segmentation
Session SPAI41 . . . . . AI Showcase North Building Level 2

10:30 AM–12:00 PM
**Scientific Papers Sessions**
Neuroradiology (Movement Disorders)
Session SSK16 . . . . . . . . . . . . . . . . . . . . . . . S401CD
Neuroradiology (Brain Tumors 2)
Session SSK17 . . . . . . . . . . . . . . . . . . . . . . . S402AB

11:30–11:50 AM
**Showcase Presentations**
RSNA AI Theater: Hitting the Bull’s AI in Neuroradiology: Unlocking Value from Workflow to Patient: Presented by icometrix
Session AI43 . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2

12:15–12:45 PM
**Posters and Exhibits: Discussions**
Neuroradiology Wednesday Poster Discussions
Session NRS-WEA . . . . . NR Community, Learning Center
12:45–1:15 PM

**Posters and Exhibits: Discussions**
Neuroradiology Wednesday Poster Discussions
Session NRS-WEB . . . . NR Community, Learning Center

3:00–4:30 PM

**Educational Courses**
RSNA AI Deep Learning Lab: Beginner Class: Classification Task (Intro)
Session SPAI43 . . . . AI Showcase North Building Level 2

3:00–4:00 PM

**Scientific Papers Sessions**
Nuclear Medicine (Head and Neck/Thyroid Nuclear Medicine and PET)
Session SSM18 . . . . . . . . . . . . . . . . . . . . . . . . . . . . S504CD
Neuroradiology/Head and Neck (General)
Session SSM19 . . . . . . . . . . . . . . . . . . . . . . . . . . . . S501ABC
Neuroradiology (Vascular, Non-Stroke)
Session SSM20 . . . . . . . . . . . . . . . . . . . . . . . . . . . . S502AB
Neuroradiology/Head and Neck (Gadolinium)
Session SSM21 . . . . . . . . . . . . . . . . . . . . . . . . . . . . S504AB
Pediatrics (Neuroradiology and Fetal Neuroimaging)
Session SSM22 . . . . . . . . . . . . . . . . . . . . . . . . . . . . S103AB
Radiation Oncology (Head and Neck, Skin)
Session SSM24 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S104A

4:30–6:00 PM

**Educational Courses**
Neuro and MSK (Case-based Competition)
Session SPDL41 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E451B

**Thursday, Dec. 5, 2019**

**Case of the Day**
Neuroradiology Thursday Case of the Day
Session ED009-TH . . . . . . . . . . . . . . . . . . . . . . . . . . Case of Day, Learning Center

7:15–8:15 AM

**Educational Courses**
Hot Topic Session: Practical Pearls in Acute Ischemic Stroke Imaging
Session SPSH50 . . . . . . . . . . . . . . . . . . . . . . . . . . . E353A

8:30–10:00 AM

**Educational Courses**
Essentials of Neuro Imaging
Course MSES51 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E450A
High Yield Pediatric Neuroradiology
Course RC605 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E450B
Horse or Zebra? Case-based Review of Common Mimics in the Head and Neck (Interactive Session)
Course RC606 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S402AB
Head and Neck PET/CT: Clinical Approach
Course RC611 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S504AB
Best Cases from the AIRP (In Conjunction with the American Institute for Radiologic Pathology) (Interactive Session)
Course RC624 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S404CD
Common Spinal Injection Procedures for Diagnosis and Treatment of Back Pain (Hands-on)
Course RC631 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E263

10:30 AM–12:00 PM

**Scientific Papers Sessions**
Neuroradiology/Head and Neck (Artificial Intelligence)
Session SSQ15 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S404AB
Neuroradiology (White Matter)
Session SSQ16 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S404CD

11:00–11:20 AM

**Showcase Presentations**
RSNA AI Theater: Big Data and Its Impact on Stroke Imaging: Presented by Cercare Medical
Session AI52 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2

12:15–12:45 PM

**Posters and Exhibits: Discussions**
Neuroradiology Thursday Poster Discussions
Session NRS-THA . . . . . . . . . . . . . . . . . . . . . . . . . . NR Community, Learning Center

12:45–1:15 PM

**Posters and Exhibits: Discussions**
Neuroradiology Thursday Poster Discussions
Session NRS-THB . . . . . . . . . . . . . . . . . . . . . . . . . . NR Community, Learning Center

1:00–2:30 PM

**Educational Courses**
RSNA AI Deep Learning Lab: Segmentation
Session SPAI52 . . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2

1:30–1:50 PM

**Showcase Presentations**
RSNA AI Theater: AI for Diagnosis, AI for the World: Presented by LPixel, Inc.
Session AI57 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2
4:30–6:00 PM

**Educational Courses**

What’s in the Pipeline for Neuro MRI?
Course RC705 .................................................. E451B

Essentials of Orbital Imaging
Course RC706 .................................................. E353C

Image-guided Biopsy of the Spine (Hands-on)
Course RC731 .................................................. E263

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**Friday, Dec. 6, 2019**

8:30–10:00 AM

**Educational Courses**

Call in the Troops, or Walk on By? Management of Unexpected Findings in Neuro/Head & Neck (Interactive Session)
Course RC805 .................................................. E450B

Pediatric Neuroemergencies
Course RC813 .................................................. E451A

10:30 AM–12:00 PM

**Scientific Papers Sessions**

Neuroradiology (Vascular and Interventions)
Session SST07 .................................................. E353A

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**Posters and Exhibits**

Discussions

*(CME is available when the author is present for discussion during the lunch period)*

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**Sunday, Dec. 1, 2019**

12:30–1:00 PM

**Scientific Posters**

Automated Detection of Stroke on Non-Contrast CT at Initial Presentation Using Texture Analysis and Machine Learning
NR406-SD-SUA6 ............................................. Station #6

Discrimination Between Glioblastoma and Single Brain Metastasis Using Radiomics and Machine Learning: Model Development and External Validation
NR407-SD-SUA3 ............................................. Station #3

Lumbar Disc Herniation: Therapeutic Effect of CT-Guided Pulsed Radiofrequency
NR364-SD-SUA1 ............................................. Station #1

Microstructural MR Imaging for the Differentiation between Spinal Ependymomas and Astrocytomas
NR366-SD-SUA4 ............................................. Station #4

Survival Analysis of Head and Neck Cancer Patients Treated with Radiotherapy: Prognostic Value of Computed Tomography-Based Volumetric Body Composition Analyses
NR408-SD-SUA5 ............................................. Station #5

Translaminar and Transforaminal Epidural Steroid Injection (ESI): Efficacy on Immediate and Long-Term Pain Management
NR365-SD-SUA2 ............................................. Station #2

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12:30–1:00 PM

**Education Exhibits**

A Multimodality Pictorial Essay of Nontraumatic Ocular and Orbital Pathologies
NR328-ED-SUA8 ............................................. Station #8

Cerebral Perfusion Imaging A to Z: Theory, Implementation, and Clinical Cases
NR330-ED-SUA9 ............................................. Station #9

Navigation Map for Head and Neck Cancer: Anatomical Routes of Tumor Spread at the Crossroads of the Neck
NR327-ED-SUA10 .......................................... Station #10

Posterior Third Ventricle Pathologies: Look Through Surgeons’ Eyes
NR329-ED-SUA7 ............................................. Station #7

Under Construction: Understanding the Post-Operative Temporal Bone
NR338-ED-SUA11 .......................................... Station #11

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1:00–1:30 PM

**Scientific Posters**

Development of Graph Theoretical Biomarkers in Early Infancy
NR367-SD-SUB1 ............................................. Station #1

Outcomes of Treatment-Induced Pseudoprogression and Correlation with MGMT Methylation Status in GBM Patients
NR410-SD-SUB5 ............................................. Station #5

Quantitative Diffusion Tensor Imaging and Ventricular/Sulcal CSF Volumetry: A Marker to Diagnose the idiopathic Normal Pressure Hydrocephalus (iNPH)
NR369-SD-SUB3 ............................................. Station #3

NR409-SD-SUB4 ............................................. Station #4

The Miniature Pig as a Neuroimaging and Spectroscopy Model for Brain White Matter Development in Human Adolescents
NR368-SD-SUB2 ............................................. Station #2
The Utility of Multiparametric MRI to Characterize Hypoxic Tumor Subvolumes in Comparison to FMISO PET  
NR411-SD-SUB6 . . . . . . . . . . . . . . . . . . . . . . . Station #6

1:00–1:30 PM  
Education Exhibits  
Open Your Mind: Everything You Need to Know About Third Window Pathologies of the Inner Ear  
NR346-ED-SUB11 . . . . . . . . . . . . . . . . . . . . . . . Station #11  
The Good, the Bad, and the Ugly: A Case-based Review of the Ultrasonographic Evaluation of Thyroid Nodules According to the 2017 ACR-TIRADS Consensus  
NR350-ED-SUB12 . . . . . . . . . . . . . . . . . . . . . . . Station #12  
There is Something in Your Eye: Imaging of Ocular Pathology  
NR331-ED-SUB7 . . . . . . . . . . . . . . . . . . . . . . . Station #7  
Up-to-Date Technique for Improvement of CT and MRI Imaging Quality in the Head and Neck: Theory, Clinical Applications  
NR334-ED-SUB9 . . . . . . . . . . . . . . . . . . . . . . . Station #9  
When Should I Think About a Transsynaptic Degeneration? A General Approach to the Transneuronal Degeneration  
NR342-ED-SUB10 . . . . . . . . . . . . . . . . . . . . . . . Station #10

Monday, Dec. 2, 2019

12:15–12:45 PM  
Scientific Posters  
Cerebral Contrast Uptake on CT Angiography in Acute Ischemic Stroke: Automated Attenuation Measurements for Ischemic Core and Final Infarction Prediction  
NR396-SD-MOB1 . . . . . . . . . . . . . . . . . . . . . . . Station #1  
Hippocampal DTI Changes in Patients with Temporal Lobe Epilepsy  
NR405-SD-MOB9 . . . . . . . . . . . . . . . . . . . . . . . Station #9  
Improved Imaging for Neurovascular Interventions Using Dual-Resolution Detector and Region of Interest Dose Reduction using Convolutional Neural Network  
NR401-SD-MOB5 . . . . . . . . . . . . . . . . . . . . . . . Station #5  
Measurement of Cerebral Blood Flow by Area-Detector CT Perfusion is Improved by Bayesian Estimation with Advanced Noise Reduction Relative to Standard Singular Value Decomposition  
NR404-SD-MOB8 . . . . . . . . . . . . . . . . . . . . . . . Station #8  
Simultaneous Multi-Angular-Relaxometry of Tissue (SMART) MRI Identifies Myelin-Related Tissue Damage in Multiple Sclerosis  
NR400-SD-MOB4 . . . . . . . . . . . . . . . . . . . . . . . Station #4  
The Effect of Artificial Intelligence-Based Intracranial Hemorrhage Detection on Study Turnaround Time for Emergent Care Non-Contrast Head CT: A Prospective Randomized Clinical Trial  
NR402-SD-MOB6 . . . . . . . . . . . . . . . . . . . . . . . Station #6
Utility of Stress MRI in the Evaluation of Degenerative Disease of the Lumbar Spine: A Study Done on 3T MRI  
**NR403-SD-MOB7**  . . . . . . . . . . . . . . . . . . . . . . Station #7

What if MRI is Used as First Line Imaging for ED Patients with Suspected Acute Ischemic Stroke?  
**NR374-SD-MOB2**  . . . . . . . . . . . . . . . . . . . . . . Station #2

When the Drains are Clogged: Can CT Attenuation Value Help to Increase the Diagnostic Sensitivity of Acute Cerebral Venous Sinus Thrombosis on Non-Enhanced CT Head Scans?  
**NR375-SD-MOB3**  . . . . . . . . . . . . . . . . . . . . . . Station #3

**12:45–1:15 PM**  
**Education Exhibits**  
Congenital Inner Ear Anomalies: A Pictorial Essay  
**NR341-ED-MOB12**  . . . . . . . . . . . . . . . . . . . . . . Station #12

Recognizing Radiation-Induced Changes in the Central Nervous System: Where and What to Look For  
**NR340-ED-MOB11**  . . . . . . . . . . . . . . . . . . . . . . Station #11

Zika Virus: A Problem Flying Right into Adult Minds  
**NR339-ED-MOB10**  . . . . . . . . . . . . . . . . . . . . . . Station #10

**Tuesday, Dec. 3, 2019**

**12:15–12:45 PM**  
**Scientific Posters**  
Comparison Among Conventional MRI Sequences for the Detection of Diffuse Axonal Injury in Patients with Traumatic Brain Injury  
**NR419-SD-TUA5**  . . . . . . . . . . . . . . . . . . . . . . Station #5

Detailed Visualization of Streamline Flow Patterns in a Neurovascular Phantom Using a 1000 Frames-Per-Second, High-Speed Photon-Counting Detector (PCD)  
**NR378-SD-TUA3**  . . . . . . . . . . . . . . . . . . . . . . Station #3

Detection of Left Atrial Appendage Thrombus in Acute Stroke Patients by Adding Cardiac CT in Stroke Protocol  
**NR376-SD-TUA1**  . . . . . . . . . . . . . . . . . . . . . . Station #1

Diffusion MRI-Guided Study of Regional Variations in Glioblastoma Multiforme Pathology and Gene Expression  
**NR418-SD-TUA4**  . . . . . . . . . . . . . . . . . . . . . . Station #4

Does the Carotid Artery Geometry Play a Role for the Stroke?  
**NR420-SD-TUA6**  . . . . . . . . . . . . . . . . . . . . . . Station #6

Frontoparietal Cortical Thinning in Impaired Executive Control in Young-Adult Multiple Sclerosis  
**NR423-SD-TUA9**  . . . . . . . . . . . . . . . . . . . . . . Station #9

Progression of Plaque Burden on Middle Cerebral Artery Associated with Recurrent Stroke: A Follow-Up Study by High-Resolution Magnetic Resonance Imaging  
**NR421-SD-TUA7**  . . . . . . . . . . . . . . . . . . . . . . Station #7

Significance of 3D Cube Flair with Compressive Sensing in the Diagnosis of Subcortical Microlesions  
**NR422-SD-TUA8**  . . . . . . . . . . . . . . . . . . . . . . Station #8

Wall Shear Stress Assessment Using Vector Flow Imaging Discriminates Between Subjects with and without Carotid Atherosclerosis in the Carotid Bifurcation  
**NR377-SD-TUA2**  . . . . . . . . . . . . . . . . . . . . . . Station #2

**12:15–12:45 PM**  
**Education Exhibits**  
Contemporary MRI Imaging in Parkinson’s Disease  
**NR345-ED-TUA12**  . . . . . . . . . . . . . . . . . . . . . . Station #12

Diagnosing Intracranial Vasculitides and Vasculopathies: Conventional MRI and Vessel Wall Imaging-based Diagnosis  
**NR344-ED-TUA11**  . . . . . . . . . . . . . . . . . . . . . . Station #11

WHO 2016 Classification of CNS Tumors: The Beginning of the Molecular Era  
**NR343-ED-TUA10**  . . . . . . . . . . . . . . . . . . . . . . Station #10

**12:45–1:15 PM**  
**Scientific Posters**  
Evaluation of White Matter Changes in Traumatic Brain Injury Using Track Density Imaging and Fractional Anisotropy  
**NR425-SD-TUB5**  . . . . . . . . . . . . . . . . . . . . . . Station #5

Increased Resting State Synchronization within the Motor Cortex following Post-Stroke Rehabilitation  
**NR379-SD-TUB1**  . . . . . . . . . . . . . . . . . . . . . . Station #1

MR Fingerprinting Evaluation for the Early Changes of Relaxation Time in the Brain Tumor and Surrounding White Matter After Stereotactic Radiotherapy  
**NR424-SD-TUB4**  . . . . . . . . . . . . . . . . . . . . . . Station #4

MRI Biomarkers Improve Disease Progression Modeling-Based Prediction of Cognitive Decline  
**NR427-SD-TUB7**  . . . . . . . . . . . . . . . . . . . . . . Station #7

New Non-Contrast Brain CT Reconstructions Could Help in Better Characterize Final Infarct Volume and Improve Patient Management in Acute Anterior Ischemic Stroke  
**NR429-SD-TUB9**  . . . . . . . . . . . . . . . . . . . . . . Station #9

Radio-Proteo-Genomic Differences in IDH1 Mutant versus Wild-Type Gliomas  
**NR426-SD-TUB6**  . . . . . . . . . . . . . . . . . . . . . . Station #6

Sound the Alarm: The Dramatic Rise in CT Head Angiography Performed for Stroke in the Emergency Department  
**NR428-SD-TUB8**  . . . . . . . . . . . . . . . . . . . . . . Station #8
The Comprehensive Analysis of 4D Flow MRI Can Detect Cerebral Hemodynamic Impairment in the Patients with Internal Carotid Artery Stenotic Disease
NR381-SD-TUB3 ............................................. Station #3

The Impact of Injection Protocol on Blood Flow Calculations in 4D-DSA
NR380-SD-TUB2 ............................................. Station #2

12:45–1:15 PM
Education Exhibits
Artificial Intelligence and Stroke Imaging: Past, Present, and Future
NR348-ED-TUB11 .............................................. Station #11

Interpretation of CT Perfusion in Acute Ischemic Stroke: A Practical Guide
NR347-ED-TUB10 ............................................. Station #10

Unperplexing the Brachial Plexus
NR349-ED-TUB12 ............................................. Station #12

Wednesday, Dec. 4, 2019

12:15–12:45 PM
Scientific Posters
Brain Cortical Thickness Alterations in Medication-Free Patients with Major Depression Disorder
NR430-SD-WEA4 ............................................. Station #4

Clinical Usefulness of Deep Learning-Based Automated Detection Algorithm in the Intracranial hemorrhages
NR383-SD-WEA2 ............................................. Station #2

Comparing an Artificial Intelligence Algorithm to Staff Neuroradiologists Performances in Diagnosing Ischaemic Lesions in Emergency CT Exam in a Stroke Center Routine
NR431-SD-WEA5 ............................................. Station #5

Evaluating the Benefit of High-Resolution DSE-MRI with Golden-Angle Radial Sparse Parallel Reconstruction of the Pituitary Gland in a Clinical Setting
NR432-SD-WEA6 ............................................. Station #6

Morphology and Density are the Most Relevant Predictors of Poor Outcome in lobar ICHs on Brain Non-Contrast CT (NCCT) and Deep ICHs, Respectively
NR382-SD-WEA1 ............................................. Station #1

Multi-Modal Convolutional Neural Networks with 2D and 3D Information Can Improve its Sensitivity and Specificity for Detecting Cerebral Aneurysms in MR Angiography
NR433-SD-WEA7 ............................................. Station #7

Using 3D Printing to Model Occlusive Balloon Performance in Aneurysmal Defects
NR384-SD-WEA3 ............................................. Station #3

Utility of Quantifying Iron Deposition in the Brainstem during the Early Stages of Parkinson’s Disease Development
NR434-SD-WEA8 ............................................. Station #8

12:15–12:45 PM
Education Exhibits
Getting the Most from Brain Cortex: Gray Matter Segmentation and Potential Clinical Applications of Cortical Thickness Techniques
NR353-ED-WEA10 ............................................ Station #10

Keep an Eye on the Eye: Imaging of Orbital Trauma
NR351-ED-WEA9 ............................................. Station #9

Non-Traumatic Head and Neck Emergencies, Pearls and Pitfalls: A Pictorial Essay
NR011-EB-WEA ............................................. Hardcopy Backboard

Open Your Mouth and Your Eyes! Don’t Lose Teeth Affections
NR352-ED-WEA11 ........................................... Station #11

12:45–1:15 PM
Scientific Posters
Automated Classification of Arteriolar Sclerosis Pathology and Prediction of Cognitive Decline Based on MRI Images
NR435-SD-WEB4 ............................................. Station #4

Automated Contrast Uptake Measurements at CT Angiography for Thrombectomy Triage in Extended Time Windows
NR439-SD-WEB8 ............................................. Station #8

Diagnostic Accuracy of Routine Non-Contrast MRI Sequences for Dural Venous Sinus Thrombosis
NR437-SD-WEB6 ............................................. Station #6

Efficacy of tc-MRGUS Thalamotomy in The Treatment of Essential Tremor (ET) and Parkinson Disease (PD) Tremor: Experience From 39 Patients in A Single Centre with Long Term Follow-Up
NR438-SD-WEB7 ............................................. Station #7

Intravoxel Incoherent Motion (IVIM) Alterations in Glioblastoma during Chemoradiation Therapy?
NR436-SD-WEB5 ............................................. Station #5

Long-Term Rupture Risk in Patients with Unruptured Intracranial Aneurysms Treated with Endovascular Therapy: A Systematic Review and Meta-Analysis
NR385-SD-WEB1 ............................................. Station #1

Quantitative Radiological Features Affecting 2HG Detection with MEGA-PRESS Sequence
NR387-SD-WEB3 ............................................. Station #3
Radiogenomic Analysis of Glioblastoma on Pre-Treatment Gd-T1w MRI Reveals Gender-Specific Imaging Features and Signaling Pathways
NR386-SD-WEB2 .................................. Station #2

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Education Exhibits
Advanced Imaging Techniques for the Assessment of Intracranial Vascular Pathology: 4D Flow and Beyond
NR356-ED-WEB11 .......................... Station #11
Head and Neck Radiation Therapy: A Primer for Radiologists
NR355-ED-WEB10 .......................... Station #10
Staging of Sinonasal Cancer: What the Radiologist Needs to Know
NR354-ED-WEB9 .......................... Station #9

Thursday, Dec. 5, 2019

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Scientific Posters
A Study on the Computer-Assisted Diagnosis with Deep Learning Architecture (CADDELAC) for the Detection of Brain Metastases
NR390-SD-THA3 .......................... Station #3
Correlates of Intra-Operative Speech Arrest on Functional Magnetic Resonance Imaging: Tumoral Invasion and Language Plasticity
NR389-SD-THA2 .......................... Station #2
Deep Learning-Enabled Acceleration for Multi-Contrast High-Resolution Intracranial Vessel Wall Imaging with 40x Reconstruction Speedup
NR413-SD-THA5 .......................... Station #5
Increase in Cerebral Blood Flow after a Single Hypoxic Hypobaric Exposure
NR412-SD-THA4 .......................... Station #4
Reliability of Functional Neuroimaging for Prediction of Eloquent Brain Function as Determined by Intraoperative Mapping in Brain Tumor Patients
NR388-SD-THA1 .......................... Station #1
Segmentation and Measurement of Ventricular and Cranial Vault Volumes in 15,223 Subjects Using Artificial Intelligence
NR414-SD-THA6 .......................... Station #6

12:15–12:45 PM
Education Exhibits
Neurologic Complications in Patients with Hematologic Malignancies: A Review of Imaging Findings
NR360-ED-THA9 .......................... Station #9

Optimizing Collateral Evaluation and Distal Vessel Occlusion Detection in Acute Stroke with Colorized Multiphase CTA Summation Maps
NR358-ED-THA7 .......................... Station #7
Refreshing Middle Cerebral Artery Anatomy in Stroke thrombectomy Era: A CT-Angiography and Perfusion-CT Radiologic Tool
NR359-ED-THA8 .......................... Station #8

12:45–1:15 PM
Scientific Posters
A Machine-Learning Based Top 10 List: Extracranial Determinants of Cerebral White Matter Lesion Volume
NR415-SD-THB4 .......................... Station #4
Artificial Intelligence-Based Cochlea Segmentation and Analysis on Clinical High-Resolution CT Images: Towards Automatic Patient-Specific Measurements for Surgical Planning
NR416-SD-THB5 .......................... Station #5
Develop Recommendations for Follow-Up Carotid Ultrasound Surveillance of Patients with <60% Carotid Stenosis
NR417-SD-THB6 .......................... Station #6
The Effects of Sound Therapy on Resting-State Functional Brain Networks in Patients with Tinnitus: A Graph-Theoretical-Based Study
NR393-SD-THB3 .......................... Station #3
Ultra-High-Resolution Dynamic CT to Evaluate Pituitary Adenomas: Comparison with Dynamic MRI
NR391-SD-THB1 .......................... Station #1
Utility of Susceptibility Weighted Imaging (SWI) in Diagnosing Colloid Cyst
NR392-SD-THB2 .......................... Station #2

12:45–1:15 PM
Education Exhibits
Autoimmune Encephalitis: Not Always Limbic
NR363-ED-THB9 .......................... Station #9
Gyriform Imaging Pattern: What’s Wrong with the Cerebral Cortex?
NR362-ED-THB8 .......................... Station #8
What’s the Buzz? An Imaging Approach to Tinnitus
NR361-ED-THB7 .......................... Station #7
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NR217-ED-X  The Eyes Have It: Congenital and Developmental/Acquired Anomalies of the Globe
NR218-ED-X  Brain on Fire: Understanding Autoimmune Encephalitis
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