NEURORADIOLOGY/HEAD AND NECK RADIOMETRY

104th Scientific Assembly and Annual Meeting
Radiological Society of North America
McCormick Place, Chicago

November 25-30
Meeting.RSNA.org #RSNA18
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 99.25 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.
Walk Through The Week

CME Learning Checkpoint
CME Learning Checkpoint Exhibit ED021 (Extreme Lateral Interbody Fusion (XLIF): Review of Surgical Technique and Spectrum of Post-treatment Imaging Findings that Radiologists Need to Know)
Session ED021 . . . CME Learning Checkpoint Community

CME Learning Checkpoint Exhibit ED022 (When Sleeping Becomes a Nightmare: Computer Tomography Evaluation of Sleep Apnea Syndrome with Muller Maneuver)
Session ED022 . . . CME Learning Checkpoint Community

CME Learning Checkpoint Exhibit ED023 (Update on Malformations of Cortical Development)
Session ED023 . . . CME Learning Checkpoint Community

SUNDAY, NOV 25, 2018
Case of the Day
Neuroradiology Sunday Case of the Day
Session ED009-SU . . . . . . . Case of Day, Learning Center

10:45 AM–12:15 PM
Educational Courses
Oncodiagnosis Panel: Oropharyngeal Cancer
Session SPO11 . . . . . . . . . . . . . . . . . . . . . . . . . . . . E451B

Pediatric Series: Neuroradiology
Course VSPD01 . . . . . . . . . . . . . . . . . . . . . . . . . . . . S406A

10:45 AM–12:15 PM
Scientific Papers Sessions
Molecular Imaging (Brain)
Session SSA13 . . . . . . . . . . . . . . . . . . . . . . . . . . . S504CD

Neuroradiology/Head and Neck (Head and Neck Tumors: State-of-the-Art Imaging)
Session SSA17 . . . . . . . . . . . . . . . . . . . . . . . . . . . E350

Neuroradiology (White Matter Diseases: Beyond Bright T2)
Session SSA18 . . . . . . . . . . . . . . . . . . . . . . . . . . . E352

Neuroradiology (Cognitive and Psychiatric Disorders)
Session SSA19 . . . . . . . . . . . . . . . . . . . . . . . . . . . E351

11:30–11:50 AM
Showcase Presentations
Machine Learning Theater: icobrain - Adding AI to the brain:
Presented by icometrix
Session ML12 . . . Machine Learning Showcase North Hall
12:30–1:00 PM
Posters and Exhibits: Discussions
Neuroradiology Sunday Poster Discussions
Session NRS-SUA . . . . . NR Community, Learning Center

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

2:00–3:30 PM
Educational Courses
Update on Imaging in Dementia
Course RC105 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E451A
The Cranial Nerves
Course RC106 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S402AB
The Best of RADIOLOGY in 2018: The Editors of RADIOLOGY Keep You Up to Date
Course RC124 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E353A
CTA from Head to Toe
Course RC131 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S503AB
Nerve Ultrasound Based on a Regional Approach: Hip to Knee (Hands-on)
Course RC152 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E264

4:00–5:30 PM
Educational Courses
3D/VR/AR Imaging: Staying on the Cutting Edge of Brain Anatomy/Pathology (Hands-on)
Course RCA13 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB

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

Monday, Nov 26, 2018
Case of the Day
Neuroradiology Monday Case of the Day
Session ED009-MO . . . . . . Case of Day, Learning Center

7:15–8:15 AM
Educational Courses
You Take the Red Pill-You Stay in Wonderland and I Show You How Deep the Rabbit Hole Goes (Case-based Competition)
Session SPDL20 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E451B
8:30–10:00 AM
Educational Courses
Case-based Review of Magnetic Resonance (Interactive Session)
Course MSCM21 ......................... S100AB
BOOST: Head and Neck-Nasopharynx & Perineural Spread (Interactive Session)
Course MSRO21 .......................... E450A
Emergency Neuroradiology: Imaging of Infection (Interactive Session)
Course RC208 ............................ E451A
What Radiologists Need to Know about the Evolving Treatment of Brain Metastases?
Course RC220 ............................. S404CD

8:30 AM–12:00 PM
Educational Courses
Neuroradiology Series: Brain Tumors
Course RC205 ............................ S406B
Course RC206 ............................ E450B

10:30 AM–12:00 PM
Scientific Papers Sessions
Neuroradiology/Head and Neck (Trauma Imaging: Picking Up the Pieces)
Session SSC11 .......................... S402AB
Science Session with Keynote: Radiation Oncology (CNS Malignancies)
Session SSC14 ........................... E353A

10:30 AM–12:00 PM
Educational Courses
BOOST: CNS-Case-based Multidisciplinary Review (Interactive Session)
Course MSRO22 .......................... S103AB
Australia and New Zealand Present: Clinical Radiology and Radiation Oncology
Session SPCP21 ............................ E351

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
Scientific Papers Sessions
BOOST: Head and Neck-Science Session
Session MSRO23 . . . . . . . . . . . . . . . . . . . . . . . . . . E450A

1:30–3:00 PM
Educational Courses
Molecular Imaging Symposium: Neurologic MI Applications
Course MSMI23 . . . . . . . . . . . . . . . . . . . . . . . . . . S405AB

3:00–4:15 PM
Educational Courses
BOOST: Head and Neck-Case-based Multidisciplinary Review
(Interactive Session)
Course MSRO24 . . . . . . . . . . . . . . . . . . . . . . . . . . E450A

3:00–4:00 PM
Scientific Papers Sessions
Nuclear Medicine (Central Nervous System Nuclear Imaging)
Session SSE17 . . . . . . . . . . . . . . . . . . . . . . . . . . S505AB
Neuroradiology/Head and Neck (Thyroid and Parathyroid Imaging)
Session SSE18 . . . . . . . . . . . . . . . . . . . . . . . . . . E351
Neuroradiology (Epilepsy Imaging)
Session SSE19 . . . . . . . . . . . . . . . . . . . . . . . . . . E352
Neuroradiology (Young Brain, Old Brain)
Session SSE20 . . . . . . . . . . . . . . . . . . . . . . . . . . E350

4:30–5:30 PM
Educational Courses
BOOST: Head and Neck-eContouring
Course MSRO29 . . . . . . . . . . . . . . . . . . . . . . . . . . S104B

4:30–6:00 PM
Educational Courses
Special Interest Session: Imaging Cognition 2018: Addiction
Session SPSI22 . . . . . . . . . . . . . . . . . . . . . . . . . . E353C
Special Interest Session: High-value MRI: Updates from the February 2018 ISMRM-RSNA Co-provided Workshop
Session SPSI23 . . . . . . . . . . . . . . . . . . . . . . . . . . E450B
TUESDAY, NOV 27, 2018

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

8:30–10:00 AM

Educational Courses
Case-based Review of Nuclear Medicine: PET/CT Workshop-Head and Neck PET/CT (In Conjunction with SNMMI) (Interactive Session)
Course MSCC31 ............................... E450B
Best Head & Neck Cases of 2018: The Experts Share Their Most Interesting and Educational Neck, Sinonasal, and Temporal Bone Cases
Course RC306 ................................. E451B
Emerging Technology: Dual Energy and Spectral CT Update 2018
Course RC317 ................................. S505AB

8:30 AM–12:00 PM

Educational Courses
Neuroradiology Series: Artificial Intelligence in Neuroradiology
Course RC305 ................................. S406B

10:30 AM–12:00 PM

Scientific Papers Sessions ............
Emergency Radiology (Brain, Head, Neck and Spine)
Session SSG04 ............................... S403A
Neuroradiology (Brain Tumors: Looking Beyond the Obvious)
Session SSG10 ............................... E353A
Neuroradiology (Molecular Neuroimaging: From Diffusion to Beyond)
Session SSG11 ............................... E351
Radiation Oncology (CNS Malignancies)
Session SSG15 ............................... S403B

10:30 AM–12:00 PM

Educational Courses
3D/VR/AR Imaging: Staying on the Cutting Edge of Brain Anatomy/Pathology (Hands-on)
Course RCA32 ................................. S401AB

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

1:30–3:00 PM
Educational Courses
Essentials of Neuro Imaging
Course MSES33 . . . . . . . . . . . . . . . . . . . . . . . . . S100AB

3:00–4:00 PM
Scientific Papers Sessions
Neuroradiology (Artificial Intelligence in Neuroimaging)
Session SSJ18 . . . . . . . . . . . . . . . . . . . . . . . . . E451B
Neuroradiology (Movement Disorders: Moving Fast and Moving Slow)
Session SSJ19 . . . . . . . . . . . . . . . . . . . . . . . . . E351
Neuroradiology (Spine Imaging: Backbone of Neuroradiology)
Session SSJ20 . . . . . . . . . . . . . . . . . . . . . . . . . E352

4:30–6:00 PM
Educational Courses
Neuroradiology: Small Tricks to Avoid Big Misses (Interactive Session)
Course RC405 . . . . . . . . . . . . . . . . . . . . . . . . . . . E451A
Do You Know Your Head & Neck Anatomy? (Interactive Session)
Course RC406 . . . . . . . . . . . . . . . . . . . . . . . . . . S402AB
Neck Sonography: TI-RADS, Parathyroids, and Other Masses
Course RC410 . . . . . . . . . . . . . . . . . . . . . . . . . N227B
PET/CT and SPECT/CT in Movement Disorders, Epilepsy, and Dementia
Course RC411 . . . . . . . . . . . . . . . . . . . . . . . . . . S504CD
The Role of Molecular and Functional Imaging in Radiation Oncology
Course RC420 . . . . . . . . . . . . . . . . . . . . . . . . . . S403B
The New Standard of Care of Large Vessel Stroke is Endovascular: Is Your Radiology Practice Ready?
Course RC431 . . . . . . . . . . . . . . . . . . . . . . . . . . S103CD
US for Thyroid Cancer: Diagnosis, Surveillance, and Treatment
Course RC450 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E261

WEDNESDAY, NOV 28, 2018
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
Essentials of Temporal Bone Imaging
Course RC506 .................................... E451A
Head and Neck PET/CT: Clinical Approach
Course RC511 ..................................... S504CD
Fundamentals of Imaging for the Radiation Oncologist
Course RC520 ..................................... S104A
Vertebral Augmentation (Hands-on)
Course RC550 ..................................... E260

8:30 AM–12:00 PM
Educational Courses
Neuroradiology Series: Stroke
Course RC505 ..................................... E450A

10:30 AM–12:00 PM
Educational Courses
Case-based Review of Pediatric Radiology (Interactive Session)
Course MSCP42 ............................... E450B

10:30 AM–12:00 PM
Scientific Papers Sessions
Neuroradiology (Stroke Imaging and Intervention)
Session SSK15 ..................................... E350
Neuroradiology (Functional Neuroimaging)
Session SSK16 ..................................... E351

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

1:30–2:30 PM
Educational Courses
BOOST: Pediatric CNS Tumors and Diagnostic Dilemmas after Radiation Therapy (Interactive Session)
Course MSRO43 .................................. S103CD
3:00–4:30 PM  
Educational Courses  
AOSR-RSNA Joint Symposium  
Session SPOR41 .............................. S504AB

3:00–4:00 PM  
Scientific Papers Sessions  
Nuclear Medicine (Thyroid/Parathyroid Imaging and Therapy)  
Session SSM16 .............................. S504CD  
Neuroradiology/Head and Neck (Dual-Energy CT in Head and Neck Imaging)  
Session SSM17 .............................. N228  
Neuroradiology (Advances in Neuro MRI)  
Session SSM18 .............................. N226  
Neuroradiology (Contrast Issues in Neuroimaging)  
Session SSM19 .............................. N227B  
Vascular Interventional (Neurovascular Interventions)  
Session SSM23 .............................. E263

4:30–5:30 PM  
Educational Courses  
BOOST: eContouring (Spinal SBRT)  
Course MSR049 .............................. S104B

4:30–6:00 PM  
Educational Courses  
Neuro and MSK (Case-based Competition)  
Session SPDL41 .............................. E451B  
Controversy Session: Gadolinium for MR Examination: To Give or Not to Give  
Session SPSC44 .............................. N228

THURSDAY, NOV 29, 2018

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  
Neuro Nightmares: Headscratchers from Overnight (Case-based Competition)  
Session SPDL50 .............................. E451B  
Controversy Session: In Stenotic Vascular Disease, Diameter Stenosis is All that Matters  
Session SPSC50 .............................. E350  
Hot Topic Session: Beyond FDG: Advancing PET Imaging of the Human Disease  
Session SPSH50 .............................. E353A
### 8:30–10:00 AM

**Educational Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Time</th>
<th>Description</th>
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<tbody>
<tr>
<td>MSCN51</td>
<td>8:30–10:00 AM</td>
<td>Case-based Review of Neuroradiology (Interactive Session)</td>
</tr>
<tr>
<td>RC605</td>
<td>8:30–10:00 AM</td>
<td>Traumatic Brain Injury</td>
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<tr>
<td>RC606</td>
<td>8:30–10:00 AM</td>
<td>Imaging of the Head &amp; Neck Glands: Thyroid, Parathyroid, and Salivary Glands (Interactive Session)</td>
</tr>
<tr>
<td>RC606</td>
<td>8:30–10:00 AM</td>
<td>Interactive Game: When Do Imaging Findings Make a Difference? (Interactive Session)</td>
</tr>
<tr>
<td>RC618</td>
<td>8:30–10:00 AM</td>
<td>Common Spinal Injection Procedures for Diagnosis and Treatment of Back Pain (Hands-on)</td>
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### 10:30 AM–12:00 PM

**Educational Courses**

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<th>Course</th>
<th>Time</th>
<th>Description</th>
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<tr>
<td>MSCN52</td>
<td>10:30 AM–12:00 PM</td>
<td>Case-based Review of Neuroradiology (Interactive Session)</td>
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### 10:30 AM–12:00 PM

**Scientific Papers Sessions**

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<th>Session</th>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>SSQ15</td>
<td>S503AB</td>
<td>Neuroradiology (Dots and Dashes: Image Analysis in Neuroradiology)</td>
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<tr>
<td>SSQ16</td>
<td>S504AB</td>
<td>Neuroradiology (Cervicocranial Vascular Imaging)</td>
</tr>
<tr>
<td>SSQ19</td>
<td>S402AB</td>
<td>Pediatrics (Neuroradiology)</td>
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### 12:15–12:45 PM

**Posters and Exhibits: Discussions**

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<th>Session</th>
<th>Time</th>
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<tr>
<td>NRS-THA</td>
<td>NR Community, Learning Center</td>
<td>Neuroradiology Thursday Poster Discussions</td>
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### 12:45–1:15 PM

**Posters and Exhibits: Discussions**

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<th>Time</th>
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<tr>
<td>NRS-THB</td>
<td>NR Community, Learning Center</td>
<td>Neuroradiology Thursday Poster Discussions</td>
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### 3:00–4:00 PM

**Educational Courses**

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<th>Session</th>
<th>Time</th>
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<tbody>
<tr>
<td>SPSH53</td>
<td>S404AB</td>
<td>Hot Topic Session: Imaging of Inflammation</td>
</tr>
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</table>
4:30–6:00 PM
Educational Courses
Spine Imaging: Diagnosis & Intervention
Course RC705 ................................................. S504AB
12 AM Head & Neck Radiology: Emergency Presentations of Head and Neck Pathology
Course RC706 ................................................. E350
 Pediatric Neuroimaging Emergencies
Course RC713 ................................................ S404AB
 Emerging Technology: Imaging of Dementias
Course RC717 ................................................ S505AB
 Image-guided Biopsy of the Spine (Hands-on)
Course RC731 ................................................. E263

FRIDAY, NOV 30, 2018
8:30–10:00 AM
Educational Courses
Getting Through the Tough Spots in Neuro: Head & Neck (Interactive Session)
Course RC805 ................................................. E450B

10:30 AM–12:00 PM
Scientific Papers Sessions
Musculoskeletal (Spine)
Session SST05 ............................................... E351
Neuroradiology/Head and Neck (Head and Neck Imaging: Back to the Future)
Session SST07 ............................................... E353A
Pediatrics (Neuroradiology)
Session SST08 ............................................... E263

Posters and Exhibits Discussions
(CME is available when the author is present for discussion during the lunch period)

SUNDAY, NOV 25, 2018
12:30–1:00 PM
Scientific Posters
Alzheimer’s Disease Screening Using Structural MRI Biomarker Quantification
NR367-SD-SUA6. ........................................... Station #6
Automated Brain Volumetry of Neuromyelitis Optica Spectrum Disorders: Inter-scanner Variability in White Matter Hyperintensities Segmentations and Volumetric Differences Compared with Multiple Sclerosis

NR366-SD-SUA5 .......................... Station #5

Deteriorated Functional and Structural Brain Networks in Diabetic Kidney Disease: A Graph Theory-Based Magnetic Resonance Imaging Study

NR364-SD-SUA3 .......................... Station #3

Evaluation of Intravoxel Incoherent Motion in Pituitary Adenoma Using Turbo Spin-Echo Diffusion-Weighted Imaging: Comparison with Pathological Microvascular Areomicrovascular Perfusion Assessment of Pituitary Adenomas: A Feasibility Study Using Tu

NR363-SD-SUA2 .......................... Station #2

Small High-Signal Lesion Posterior to the Intracranial Vertebral Artery Incidentally Identified by 3D FLAIR: Analysis of the Relationship to the Spinal Accessory Nerve by 3D Balanced Fast Field Echo MR Imaging

NR362-SD-SUA1 .......................... Station #1

The Association among Quantitative Contrast Enhanced Ultrasonography Features, TI-RADS Score and BRAF V600E Mutation in Papillary Thyroid Cancer

NR365-SD-SUA4 .......................... Station #4

12:30–1:00 PM

Education Exhibits

A Case-based Approach to Understanding Cerebral Proliferative Angiopathy, A Distinct Entity from Classical Brain AVM

NR329-ED-SUA9 .......................... Station #9

Eyes Are the Windows to the... CNS When Anterior Visual Pathway Involvement Reflect the Diagnosis of CNS Disorders: Reviewing Patterns and Differential Diagnosis

NR330-ED-SUA10 .......................... Station #10

Pharyngoesophagram and Videofluoroscopic Evaluation of Oropharyngeal Swallow: The First Step in the Study of Dysphagia

NR327-ED-SUA7 .......................... Station #7

Radiological Correlates of Classic Neurological Presentations: The Anatomy Behind the Syndrome

NR328-ED-SUA8 .......................... Station #8

1:00–1:30 PM

Scientific Posters

Automated Coregistration Improves Diagnostic Accuracy Compared to Conventional Reading in the MRI Follow-Up Assessment of Brain Lesions in Patients with Multiple Sclerosis

NR373-SD-SUB6 .......................... Station #6
Context-Guided Deep Learning Framework for Skull Stripping 
NR368-SD-SUB1 . . . . . . . . . . . . . . . . . . . . . . . Station #1

Disrupted Hippocampus-Prefrontal Circuitry in Parkinson's Disease Patients with Mild Cognitive Impairment 
NR372-SD-SUB5 . . . . . . . . . . . . . . . . . . . . . . . Station #5

Prediction of Parkinson’s Disease by Using Deep Learning 3D-Convolutional Neural Networks 
NR369-SD-SUB2 . . . . . . . . . . . . . . . . . . . . . . . Station #2

Prospective Multiparametric US Evaluation of Parotid Gland Lesions 
NR371-SD-SUB4 . . . . . . . . . . . . . . . . . . . . . . . Station #4

Usefulness of Dual-Layer Spectral CT in Follow-Up Examinations: Diagnosing Recurrent Lesions of Head and Neck Squamous Cell Carcinomas 
NR370-SD-SUB3 . . . . . . . . . . . . . . . . . . . . . . . Station #3

1:00–1:30 PM
Education Exhibits
Cranial Vault Lesions in Systemic Diseases: Should I Stay or Should I Go (Further)? 
NR334-ED-SUB10 . . . . . . . . . . . . . . . . . . . . . . . Station #10

Does this Brain Infection Get Better or Worse? Central Nervous System Immune Reconstitution Inflammatory Syndrome (CNS-IRIS) in Setting of HIV infection 
NR331-ED-SUB7 . . . . . . . . . . . . . . . . . . . . . . . Station #7

DWI Beyond Stroke – Lesion Pattern Approach 
NR333-ED-SUB9 . . . . . . . . . . . . . . . . . . . . . . . Station #9

Stain Your Brain: Neuropathology of Pediatric Brain Tumors 
NR332-ED-SUB8 . . . . . . . . . . . . . . . . . . . . . . . Station #8

MONDAY, NOV 26, 2018
12:15–12:45 PM
Scientific Posters
Altered Structural Covariance in Mesial Temporal Lobe Epilepsy Network 
NR379-SD-MOA5 . . . . . . . . . . . . . . . . . . . . . . . Station #5

Brain Derived Neurotrophic Factor (Val66Met) Predicts Structural White Matter and Neurocognitive Alterations in Mild Traumatic Brain Injury: A Combined Genotype-Tensor Based Analysis 
NR381-SD-MOA7 . . . . . . . . . . . . . . . . . . . . . . . Station #7

Clinical Value of Vascular Permeability Estimates Using Dynamic Susceptibility Contrast MRI: Improved Diagnostic Performance in Distinguishing Hypervascular Primary CNS Lymphoma from Glioblastoma 
NR374-SD-MOA1 . . . . . . . . . . . . . . . . . . . . . . . Station #1
Malignant X Benign: Use of 2D-Shear Wave Sonoelastography for the Risk Stratification of Thyroid Follicular Nodules
NR378-SD-MOA4 ...................... Station #4

Noninvasive Prediction of IDH1 and ATRX Mutation in Low-Grade Gliomas Using Multi-Parametric MR Radiomic Features
NR380-SD-MOA6 ...................... Station #6

Resident Call Preparation Website: Preliminary Results
NR375-SD-MOA2 ...................... Station #2

Wave-CAIPI Encoding 3D T1-Weighted Magnetization-Prepared Rapid Gradient Echo (MP-RAGE) Brain Imaging: A New Technique for Scan Time Reduction
NR376-SD-MOA3 ...................... Station #3

12:15–12:45 PM

Education Exhibits
CT Angiography and CT Perfusion of Brain Tumors with a Reduced Dose of Radiation and Contrast Medium
NR336-ED-MOA9 ...................... Station #9

CT Myelos: Dinos or Rhinos? Indications and Pathologies in this Modern MR Era
NR335-ED-MOA8 ...................... Station #8

Do Not Get Lost in the Triangle of Guillain-Mollaret: A Pictorial Guide Through the Hypertrophic Olivary Degeneration Flow
NR337-ED-MOA10 ...................... Station #10

Neuroimaging in Autoimmune Limbic Encephalitis: MRI versus PET/CT and Mimickers of Disease
NR016-EB-MOA ..................... Hardcopy Backboard

12:45–1:15 PM

Scientific Posters
Age Related Changes in Topological Properties of Brain Functional Network and Structural Connectivity
NR385-SD-MOB4 ...................... Station #4

Comparison of Morphology and Enhancement Characteristics of Ectopic and Eutopic Parathyroid Adenomas.
NR386-D-MOB5 ...................... Station #5

Computed Tomographic Angiography and Perfusion Select Patients with Large Vessel Occlusion for Endovascular Treatment
NR384-SD-MOB3 ...................... Station #3

Source Space MEG Delta Waves Increase Following Concussion
NR388-SD-MOB7 ...................... Station #7

Susceptibility-Weighted Angiography (SWAN) for the Detection of Vessel Wall Calcification and Intramural Hemorrhage/Hematoma in Intracranial Vertebral Arteries
NR383-SD-MOB2 ...................... Station #2
T1rho of Malignant Gliomas Can Be a Biomarker of IDH1 and ATRX Immunohistochemical Stainability
NR387-SD-MOB6  . . . . . . . . . . . . . . . . . . . . . . Station #6

The Value of Histogram-Based ADC Map in Distinguishing Pleomorphic Adenomas from Malignant Parotid Gland Tumors
NR389-SD-MOB8  . . . . . . . . . . . . . . . . . . . . . . Station #8

Treatment-Naïve First Episode Depression Diagnosis Based on Brain Functional Network
NR382-SD-MOB1  . . . . . . . . . . . . . . . . . . . . . . Station #1

12:45–1:15 PM
Education Exhibits
3D Ultrasonography of the Larynx: Anatomic Correlation with CT and Direct Endoscopic Visualization
NR338-ED-MOB9  . . . . . . . . . . . . . . . . . . . . . . Station #9

A “Pseudo” Review of Neuroradiology
NR339-ED-MOB10  . . . . . . . . . . . . . . . . . . . . . . Station #10

CT Imaging of the Lumbar Spine: An Interactive Program on the Differential Diagnosis Beyond Trauma
NR005-EC-MOB  . . . . . . . . . . . . . . . . . . . . . . Custom Application Computer Demonstration

Mind the Black Spots: A Pictorial Review of Cerebral Amyloid Angiopathy-Related Inflammation
NR340-ED-MOB11 . . . . . . . . . . . . . . . . . . . . . . Station #11

TUESDAY, NOV 27, 2018
12:15–12:45 PM
Scientific Posters
CTA Findings Predictive of Postoperative Vasospasm in Patients with SAH secondary to Ruptured Intracranial Aneurysm
NR392-SD-TUA2. . . . . . . . . . . . . . . . . . . . . . . Station #2

Deep Learning for Automatic Detection and Segmentation of Acute Epidural and Subdural Hematomas in Head CT
NR390-SD-TUA1 . . . . . . . . . . . . . . . . . . . . . . . Station #1

Event-Based Model of Diffusion MRI Shows that sCJD Strains Have Similar Epicenter but Different Lesion Propagation in the Brain
NR396-SD-TUA6. . . . . . . . . . . . . . . . . . . . . . . Station #6

Fast, Robust and Accurate Segmentation of the Complete Cerebral Vasculature in 4D-CTA Using Deep Learning
NR397-SD-TUA7 . . . . . . . . . . . . . . . . . . . . . . . Station #7

Is MRI-based Deep Brain Stimulation (DBS) Programming the New Clinician?
NR393-SD-TUA3. . . . . . . . . . . . . . . . . . . . . . . Station #3
Machine Learning Based Radiomics for Glial Tumor Classification
NR398-SD-TUA8. ......................... Station #8
Prediction of IDH-1 Mutation and 1P/19Q Codeletion Status in Diffuse Gliomas Using Magnetic Resonance Textural Analysis
NR395-SD-TUA5. ......................... Station #5
The Predictive Value of Lumbar Spine MRI Findings Using the Provocative Discogram
NR394-SD-TUA4. ......................... Station #4

12:15–12:45 PM
Education Exhibits
Central Nervous System Parasitic Infections: What Radiologists Should Know
NR343-ED-TUA12 .................. Station #12
CNS Vasculopathies: Diagnostic Clues on MR Imaging
NR347-ED-TUA10 .................. Station #10
Dental Emergencies: A Practical Guide to Identify Them
NR342-ED-TUA11 .................. Station #11
Extra-Nodal Extension in Head and Neck Cancer: How Radiologists Can Help Staging and Treatment Planning
NR344-ED-TUA9 .................. Station #9
Imaging Findings in Medication-Induced Changes of the Central Nervous System: What Radiologists Should Know
NR020-EB-TUA ................ Hardcopy Backboard

12:45–1:15 PM
Scientific Posters
Amide Proton Transfer Imaging in the Head and Neck: A Feasibility Study for Differentiating Malignant from Benign Lesions
NR401-SD-TUB3 .................. Station #3
Cervical Spondylotic Myelopathy: Changes of Fractional Anisotropy and Magnetic Resonance Spectroscopy Dependent on Symptoms and Symptom Duration
NR402-SD-TUB4 .................. Station #4
Correlation of 99mTc-TRODAT-1 SPECT Imaging Findings and Clinical Staging of Parkinson’s Disease
NR404-SD-TUB6 .................. Station #6
Detection of Local Recurrence in Patients with Head and Neck Squamous Cell Carcinoma Using Voxel-Based Color Maps of Initial and Final Area under the Curve Values Derived From DCE-MRI
NR400-SD-TUB2 .................. Station #2
Diffusion Tensor and DSC Perfusion Imaging of CNS Lymphoma: A Comparison with Glioblastoma Multiforme
NR407-SD-TUB9 .................. Station #9
Grading Meningiomas Using Mono-Exponential, Bi-Exponential and Stretched Exponential Model-Based Diffusion-Weighted MR Imaging

NR403-SD-TUB5 ............................................. Station #5

Identification of Autism Spectrum Disorder Using Deep Learning

NR405-SD-TUB7 ............................................. Station #7

Prediction of Clinical Outcome of Acoustic Neuromas Treated with Cyberknife Stereotactic Radiosurgery Using a Radiomic Approach: A Preliminary Study

NR406-SD-TUB8 ............................................. Station #8

Utility of Contrast-Enhanced Ultrasound in Preoperative Evaluation of Primary Hyperparathyroidism

NR399-SD-TUB1 ............................................. Station #1

12:45–1:15 PM

Education Exhibits

It Is Not Always Adenoma: Other Sellar and Parasellar Injuries

NR341-ED-TUB10 .......................................... Station #10

Lesions of the Pineal Region: A Clinical-Radiological Approach to Differential Diagnosis

NR345-ED-TUB11 .......................................... Station #11

Old But Gold? The Role of Digital Sialography and Its Correlations with Other Diagnostic Methods in Modern Radiology

NR346-ED-TUB12 .......................................... Station #12

WEDNESDAY, NOV 28, 2018

12:15–12:45 PM

Scientific Posters

An fMRI Study of Expert Radiologists and Non-Radiologists

NR413-SD-WEA6 .......................................... Station #6

Artifact Reduction for Spectral Imaging Using a Three-state Projection-based Metal Artifact Reduction Algorithm

NR415-SD-WEA8 .......................................... Station #8

Deep Learning for Acute Ischemic Stroke on Diffusion-Weighted MR Imaging

NR414-SD-WEA7 .......................................... Station #7

Evaluation of Accumulation of The Gadolinium-based Contrast Agents on Brain Tissues of Subjects With No Brain Abnormalities Using Quantitative Mapping of Susceptibility and Gray Matter Tissue Volume

NR416-SD-WEA9 .......................................... Station #9

Initial Clinical Experience of Synthetic MRI as a Routine Neuroimaging Protocol in Daily Practice: A Single-Center Study

NR411-SD-WEA4 .......................................... Station #4
MR Quantitative Phantom Study of OMAR/SEMAC Metal Suppression for Spine Instrumentation at 3T
NR409-SD-WEA2 .................................. Station #2

Peritumoral Bone Change in Oral Squamous Cell Carcinoma: A Prospective Study Through Radiologic-Pathologic Correlation
NR408-SD-WEA1 ............................... Station #1

Predicting Hemorrhagic Transformation by 3dpCASL Following Acute Stroke in Patients with Good Collateralization
NR412-SD-WEA5 ............................... Station #5

The Filter Back Projection Revisited: The Sharp Filter Kernel Improve the Visualization of the Adamkiewicz Artery in Low-kV CT Angiography
NR410-SD-WEA3 ............................... Station #3

12:15–12:45 PM
Education Exhibits
NR350-ED-WEA12 .............................. Station #12

How the Ocular Ultrasound Helps the Ophtalmologist: Review of the Technique and the Most Frequent Pathologies Seen with Its Use in the Emergency Room
NR348-ED-WEA10 ............................... Station #10

Primary CNS Lymphoma: Role of the Radiologist from Diagnosis to Surveillance of the Disease
NR349-ED-WEA11 ............................... Station #11

12:45–1:15 PM
Scientific Posters
Acute Thrombectomy in the Ageing Population: A Retrospective Analysis of Radiological and Clinical Outcomes in Acute Thrombectomies Performed in Patients 80 Years and Older With an Intention to Treat Analysis
NR421-SD-WEB5 ............................... Station #5

Clinical Feasibility of 2 Minutes Ultrafast Brain MRI and MR Angiography Compared With Synthetic Brain MRI and Conventional MR Angiography: A Single Center Pilot Study
NR419-SD-WEB3 ............................... Station #3

Comparison of Compressed Sense and Conventional Technique for Magnetic Resonance Imaging of Brain in Paediatric Population
NR418-SD-WEB2 ............................... Station #2

CT Head Intracranial Hemorrhage Detection with Deep Learning: Experience with 9 Million Images
NR417-SD-WEB1 ............................... Station #1
Feasibility of Dual-Layer Detector Spectral CT-Derived Iodine Quantification for Focal Thyroid Lesions: A Pilot Study
NR422-SD-WEB6  . . . . . . . . . . . . . . . . . . . . . . Station #6

Functional Connectivity rsfMRI Study of Chess Experts and Novices
NR425-SD-WEB9  . . . . . . . . . . . . . . . . . . . . . . Station #9

Impact of Brain Tumors and Radiotherapy on the Presence of Gadolinium in the Brain After Repeated Administration of Gadolinium Based Contrast Agents: An Experimental Study on Rats
NR424-SD-WEB8  . . . . . . . . . . . . . . . . . . . . . . Station #8

Non-Contrast ASPECTS Region Density Predicts Final Infarction in Acute Ischemic Stroke
NR420-SD-WEB4  . . . . . . . . . . . . . . . . . . . . . . Station #4

Synthetic Brain MRI Obtained from T1 and T2 Imaging
NR423-SD-WEB7  . . . . . . . . . . . . . . . . . . . . . . Station #7

12:45–1:15 PM
Education Exhibits

Behind Those Eyes: What the Radiologist Needs to Know About Orbital Lesions
NR352-ED-WEB10  . . . . . . . . . . . . . . . . . . . . . . Station #10

Don’t Fall Asleep at the Wheel! A Practical Guide for Obstructive Sleep Apnea Syndrome (OSAS) Imaging Evaluation
NR354-ED-WEB12  . . . . . . . . . . . . . . . . . . . . . . Station #12

Resident Primer: A Pattern-Based Approach to Central Nervous System Infection
NR353-ED-WEB11  . . . . . . . . . . . . . . . . . . . . . . Station #11

THURSDAY, NOV 29, 2018
12:15–12:45 PM
Scientific Posters

Application of Textural Analysis Method for Distinguishing Benign and Malignant Thyroid Nodules with Circinate Macrocalkification on CT Images
NR431-SD-THA6  . . . . . . . . . . . . . . . . . . . . . . . Station #6

Automatic Generation of Synthesized Perfusion Maps from Multimodal MRI using a Deep Neural Network based Learning Scheme: A First Step Towards Quantification of Ktrans, Permeability, and Susceptibility Artifacts
NR428-SD-THA3  . . . . . . . . . . . . . . . . . . . . . . . Station #3

Basic Consideration of the Facial Aging: Anatomic and MR Imaging Analysis of the Nasolabial Fold (NLF)s
NR430-SD-THA5  . . . . . . . . . . . . . . . . . . . . . . . Station #5
Gadolinium and Ferumoxytol Contrast Agents Given in the Same Imaging Session for Brain MRI: Is It Feasible?
NR426-SD-THA1....................... Station #1

Incidence and Clinical Implications of FLAIR Signal Abnormality in the Internal Jugular Vein and Transverse and Sigmoid Sinuses on Brain MRI
NR429-SD-THA4....................... Station #4

MAGnetic Resonance Image Compilation (MAGIC): Is It Trustworthy?
NR427-SD-THA2....................... Station #2

12:15–12:45 PM
Education Exhibits
Dedicated Lower Cranial Nerve MRI Imaging, Anatomy, and Common Pathologies
NR351-ED-THA10..................... Station #10

Genetics and Imaging of Thyroid Cancer: 2018 Update
NR357-ED-THA8....................... Station #8

Neuroimaging of Epilepsy: The Integration of Structural and Functional Imaging Modalities
NR356-ED-THA7....................... Station #7

Pediatric Multiple Sclerosis: Imaging Spectrum and Differential Diagnosis
NR358-ED-THA9....................... Station #9

12:45–1:15 PM
Scientific Posters
Evaluation of Verbal Memory in Low-Grade Glioma Patients with F-MRI N-Back Paradigm
NR433-SD-THB2....................... Station #2

Heritability of Perivascular Space in Healthy Young Adult Twins: Evidence from the Human Connectome Project Database
NR436-SD-THB5....................... Station #5

Multimodality Sound Touch Elastography May Add a New Method to Ultrasound Evaluation of Thyroid cancer
NR435-SD-THB4....................... Station #4

Prediction of High Amyloid Deposition in Non-Demented Elderly Subjects Using a Marketed Volumetric Software Tool
NR432-SD-THB1....................... Station #1

Progressive White Matter Changes in Corticospinal Tracts in Different Clinical Stages of Patients with Amyotrophic Lateral Sclerosis
NR434-SD-THB3....................... Station #3

Voxel-based Simultaneous Analysis of Magnetic Susceptibility and Morphometry Using Magnetization-Prepared Spoiled Turbo Multiple Gradient Echo
NR437-SD-THB6....................... Station #6
12:45–1:15 PM
Education Exhibits
Acute Ischemic Stroke Imaging and Management: A Current Review
NR361-ED-THB9 . . . . . . . . . . . . . . . . . . . . . . . Station #9
Cranial Nerve Enhancement - The VICTIM of Range Group of Diseases
NR360-ED-THB8 . . . . . . . . . . . . . . . . . . . . . . . Station #8
Sialadenitis and Salivary Gland Anatomy
NR359-ED-THB7 . . . . . . . . . . . . . . . . . . . . . . . Station #7
The Hitchhiker’s Guide to Idiopathic Normal Pressure Hydrocephalus: What the Radiologist Needs to Know
NR355-ED-THB10 . . . . . . . . . . . . . . . . . . . . . . . Station #10
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<td>NR017-EB-X</td>
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NR019-EB-X Algorithm Diagnostic Imaging in Intrathecal Drug Delivery Failure
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NR102-ED-X The Indispensable Role of MRI in Preoperative Assessment of Cochlear Implant: CT is a Must but is it Enough?
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NR104-ED-X Imaging Patterns of Diffuse Leptomeningeal Glioneuronal Tumor (DLGNT): A Recently Classified Rare CNS Tumor with Challenging Radiological Findings - ‘A Wolf in Sheep’s Clothing’
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NR107-ED-X Indications and Interpretations of CT Perfusion for Cerebral Ischemic Stroke
NR108-ED-X Brain Metastases: Be Careful! the Primary Tumor Is a Small Cell Lung Carcinoma!
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NR114-ED-X  Neurological Complications of Immunotherapy

NR115-ED-X  Brain Tumor Board Primer-Glioblastoma: What You Need to Know to Survive

NR116-ED-X  Neurosarcoidosis: Reviewing the Imaging Findings of a Rare Disease with Emphasis on Differential Diagnosis Based on Patterns of Involvement

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NR119-ED-X  Volume Brain CT Perfusion-Practical Technique, Analysis, and Pitfalls: What the Radiologist Needs to Know

NR120-ED-X  Complications of Neuro-Endovascular Treatments: Beyond the Procedures

NR121-ED-X  Clinically Feasible Quantitative Susceptibility Mapping and Susceptibility Weighted Imaging: Two-Minute 1mm-isotropic Voxel Imaging

NR122-ED-X  Post Traumatic Visual Loss: An Unusual Consequence of Cranial and Thoracic Trauma

NR123-ED-X  Abnormalities of the Cauda Equina in Adults: Imaging Review & Case Based Approach to Diagnosis

NR124-ED-X  Ring the Alarm! Powerful Tips on Ring-Enhancing CNS Lesions in HIV/AIDS Patients

NR125-ED-X  What if the Patient Has Ataxia? MRI Can Offer You a Helping Hand

NR126-ED-X  Acute Headache in the Emergency Setting

NR127-ED-X  Cavernous Sinus Lesions

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NR130-ED-X The Swollen Paortid
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NR132-ED-X Multimodality Imaging Characteristics of HPV-Related Oropharyngeal Squamous Cell Carcinoma: Morphologic Radiologic Features and Quantitative Parameters
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NR143-ED-X Staging of Laryngeal Cancer: Extralaryngeal Spread Beyond Direct Thyroid Cartilage Invasion
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NR146-ED-X Advanced Imaging Protocol to Improve the Image Quality of Carotid CT Angiography

NR147-ED-X Extramedullary Spinal Cysts: Diagnosis and Image-Guided Interventions

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NR149-ED-X Pearls and Pitfalls of Thyroid Ultrasound Elastography

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NR151-ED-X Swallowing Abnormalities Associated with Stroke: Correlation Between Location of Lesions, Swallowing Patterns, and Therapeutic Recommendations

NR152-ED-X Pediatric Leukodystrophies with an Emphasis on Diffusion-Weighted Imaging

NR153-ED-X Don’t Try to Cut the Corner When Evaluating Posterior Fossa: Rhombencephalitis Main Findings and How to Recognize the Major Differential Diagnosis

NR154-ED-X Review: Essentials of NECT Head

NR155-ED-X AJCC 2018 Head and Neck Cancer Staging Manual: Get Prepared for the ENT Tumor Board

NR156-ED-X Am I Loitering Around a Diagnosis? No, It’s Amyloidosis! A Review of Amyloid and Mimics for the Neuroradiologist

NR157-ED-X The Role of Diagnostic Imaging in Oral Cavity Cancer

NR158-ED-X Vascular Variants: Go with the Flow

NR159-ED-X Radiological Approach for Depth of Invasion of the Oral Tongue Cancer Added in AJCC 8th Edition: Assessment of the Necessity of Elective Neck Dissection

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NR161-ED-X Ganglioglioma: A Tumor with Split Personality

NR162-ED-X Pictorial Guide to Categorizing Post-Treatment Brain Tumor MRIs Using a Structured Reporting System
NR163-ED-X  Epstein-Barr Virus Associated Nasopharyngeal Carcinoma: Pathogenesis and Evolving Imaging Features

NR164-ED-X  Multimodality Imaging of Tumoral and Non-Tumoral Orbital Pathologies

NR165-ED-X  Synthetic MRI in Neuroradiology: Imaging Findings, Clinical Applications, and Pitfalls

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NR171-ED-X  Radiologic-Pathologic Correlation for Differential Diagnosis Using Diffusion MRI with a Short Diffusion Time

NR172-ED-X  Looking For a Needle In The Haystack: An Update in Parathyroid Imaging from Diagnosis to Treatment

NR173-ED-X  Application of PET-MRI in Head and Neck Cancer: A Multimodality Imaging Approach

NR174-ED-X  Thyroid Imaging Reporting and Data System: Pitfalls, Solutions, and Future Directions

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NR182-ED-X Paranasal Sinus Tumors: Imaging Protocol and Diagnostic Algorithm - A Pictorial Review

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NR186-ED-X Cranio Vertebral Junction Abnormalities: Radiological Assessment and Image Based Review

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NR188-ED-X ‘Altered Mental Status’ in a Patient with Cancer: What Can a Radiologist See?

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NR190-ED-X Thyroid and Cervical Lymph Node Levels Ultrasound Assessment: A Resident’s Guide

NR191-ED-X Imaging of Uncommon Sellar Masses

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| NR197-ED-X | Improved Imaging of Craniosynostosis with Cinematic Rendering and ZTE MRI |
| NR198-ED-X | Role of Multi-Slice CT Scan in Buccal Mucosa Malignancy |
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| NR200-ED-X | 1H-MR Spectroscopy in Differential Diagnosis of Intracranial Masses: Can It Be a Conclusive Factor? |
| NR201-ED-X | Exploring Eloquent Frontal Areas by fMRI & DTI in Neurosurgical Patients |
| NR202-ED-X | Utility of Perfusion-Weighted MRI to Evaluate Brain Tumor |
| NR203-ED-X | "Percentage Signal Intensity Recovery": An Underutilized MR Perfusion Parameter in the Differentiation of Common Brain Tumors! |
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