

**ADDITIONAL STORY IDEAS**  
**RSNA 105<sup>th</sup> SCIENTIFIC ASSEMBLY AND ANNUAL MEETING**

In addition to the presentations described in RSNA news releases, the following presentations have been identified as particularly newsworthy. Times, locations and abstracts for the presentations can be found in the online program at <http://rsna2019.rsna.org/program/>.

**FEATURED STUDIES**

**BREAST**

Mon. Dec. 2, #RC215-03, *MRI in Addition to Mammography Screening in Women with Extremely Dense Breasts: Primary Outcome of the Randomized DENSE Trial*, Marije F. Bakker, Ph.D., Utrecht, Netherlands

Tues. Dec. 3, #RC315-04, *Are Your AI Diagnosis Models Safe Under Attack of Manipulated Images?* Qianwei Zhou, Ph.D., Zhejiang, China

**CARDIAC**

Sun. Dec. 1, #CA203-SD-SUB1, *Deep-Learning-Based Technology for Eliminating Gadolinium Contrast Agents in Myocardial Infarction MR Imaging*, Chenchu Xu, Ph.D., Ontario, Canada

**EMERGENCY RADIOLOGY**

Mon. Dec. 2, #SSE06-01, *Diagnostic Accuracy and Impact on Clinical Patient Management of an Ultrafast 5 Min/5 Sequences Brain MRI Protocol in Acute Neurological Emergencies*, Philipp M. Kazmierczak, M.D., Munich, Germany

**GENITOURINARY**

Fri. Dec. 6, #SST04-04, *Automated Radiomic Analysis of Ureteral Stones Using ER Renal Stone CT Images Predicts Likelihood of Spontaneous Passage*, Joel G. Fletcher, M.D., Rochester, Minn.

**HEALTH SERVICES, POLICY AND RESEARCH**

Sun. Dec. 1, #HP215-SD-TUB1, *CT Examination and 3D Analysis of Egyptian Animal Mummies*, Michaela I. Cellina, Milan, Italy

Mon. Dec. 2, #SSE13-01, *Medical Radiation Exposure of Patients in the United States*, Mahadevappa Mahesh, Ph.D., Baltimore, Md.

**INFORMATICS**

Mon. Dec. 2, #SSC08-07, *Detection of Lung Cancer in Subjects with Positive Screening CT Scans in the National Lung Screening Trial (NLST) Dataset by Leveraging the Lung Image Database Consortium (LIDC-IDRI) Dataset*, Pritam Mukherjee, Ph.D., Stanford, Calif.

Wed. Dec. 4, #SSM15-03, *Protecting Patients from Cyber-Attacks on CTs Using Machine Learning Methods*, Tom Mahler, Beer Sheva, Israel

**MUSCULOSKELETAL**

Wed. Dec. 4, #SSK14-08, *Safety and Efficacy of Image Guided Radiofrequency Ablation of Genicular Nerve for Pain Management in Patients with Moderate to Severe Osteoarthritis of the Knee: Initial Single Institution Experience*, Felix Gonzalez, M.D., Atlanta, Ga.

## **NEURORADIOLOGY**

Mon. Dec. 2, #SSE20-03, *Neuropathologic Correlates of Enlarged Perivascular Spaces and Contribution to Cognitive Decline in a Community Cohort of Older Adults*, Carles Javierre Petit, M.S., Chicago, Ill.

Tues. Dec. 3, #SSJ18-04, *Relationship Of White Matter Microstructure To Working Memory Function As A Function Of Time-Since-Injury After Mild Traumatic Brain Injury: Diffusion MRI Study*, Sohae Chung, Ph.D., New York, N.Y.

Tues. Dec. 3, #SSJ18-01, *Detection of Cerebral Microbleeds in American Football Players Using SWI: A Comparison of 3T to 7T MRI*, Cornelius Deuschl, M.D., Essen, Germany

Tues. Dec. 3, #SSJ20-06, *Incidence of Acute Kidney Injury with Exposure to Multiple Doses of Iodinated Contrast in Patients with Acute Ischemic Stroke*, Xiao Wu, New Haven, Conn.

Wed. Dec. 4, #SSM19-02, *Predictors of Positive Brain MR Imaging in Patients with New Daily Persistent Headache*, George K. Vilanilam, M.B.B.S., Jacksonville, Fla.

## **OTHER HIGHLIGHTS**

### **ARTIFICIAL INTELLIGENCE**

Thurs. Dec. 5, #AI262-SD-THA1, *Determining Brain Age Using Machine Learning Combined with Automated Brain Segmentation and PET imaging In Normal, Alzheimer's Disease and Mild Cognitive Impairment Subjects*, Weidong Luo, Ph.D., San Diego, Calif.

### **CARDIAC**

Tues. Dec. 3, #SSJ04-05, *Diastolic Dysfunction in Competitive Male Triathletes with Myocardial Fibrosis following a Strenuous Endurance Exercise*, Enver G. Tahir, M.D., Hamburg, Germany

### **GASTROINTESTINAL**

Wed. Dec. 4, #GI417-SD-WEA10, *Assessment of Liver Surface Nodularity, Sarcopenia and Visceral Obesity as Predictors of Cardiometabolic Risk Factors in African Americans*, Elliot Varney, B.S., Jackson, Miss.

### **GENITOURINARY**

Mon. Dec. 2, #GU207-SD-MOA2, *Phase II Study to Evaluate Transrectal, Magnetic Resonance Image-Guided Laser Focal Therapy of Prostate Cancer in an Outpatient Setting Using Realtime MR-Thermometry: Ten Year Interim Results*, John F. Feller, M.D., Indian Wells, Calif.

### **HEALTH SERVICES, POLICY AND RESEARCH**

Sun. Dec. 1, #HP201-SD-SUA2, *Transcontinental Thematic Analysis of Gender Role in Medical Schools Leadership: A Message to Academic Radiology & Hospital Administration*, Waleed Abdellatif, M.D., Vancouver, Canada

Tues. Dec. 3, #HP214-SD-TUA3, *Is Hypnosis an Alternative to Pharmacologic Sedation for Claustrophobic Patients Undergoing MR Exams? A Retrospective Study*, Nicole Ferrera Espinosa, Arogn, Switzerland

Wed. Dec. 4, #SSM13-02, *Financial Toxicity in Cancer Patients and their Caregivers: Correlation with Patient's Medication and Imaging Non-Adherence*, Deema Elchoufi, B.S., Atlanta, Ga.

### **INFORMATICS**

Tues. Dec. 3, #IN249-SD-TUB2, *ROSA Robot Rehearsal: Utilizing 3D Printing to Facilitate the Integration of Robotic Stereotactic Assistance (ROSA) in Neurosurgery*, Ritesh D. Patel, M.D., Manhasset, N.Y.

## **MOLECULAR IMAGING**

Wed. Dec. 4, #SSK13-06, *Glycosaminoglycan Remodeling of Lumbar Intervertebral Discs in Elite Rowers Throughout Their Annual Training Cycle*, Miriam Frenken, Dusseldorf, Germany

## **MUSCULOSKELETAL**

Sun. Dec. 1, #SSA14-04, *Quantitative Assessment of Bone Marrow Adipose Tissue after Roux-en-Y Gastric Bypass Surgery in Postmenopausal Women*, Kerensa, M. Beekman, M.D., Amsterdam, Netherlands

Mon. Dec. 2, #SSC09-06, *Patients with Type 2 Diabetes Exhibit a More Mineralized Deep Cartilage Layer Compared to Nondiabetic Controls: A Pilot Study*, Sarah C. Foreman, M.D., San Francisco, Calif.

Tues. Dec. 3, #SSJ16-06, *Efficacy of Knee Unloader Bracing Evaluated with Quantitative MRI*, Won C. Bae, Ph.D., La Jolla, Calif.

Tues. Dec. 3, #SSJ15-05, *Tissue Characterization Using Quantitative Acoustic Radiation Force Impulse Elastography (ARFI) in Athletes with Different Experience in Self-Myofascial Release*, Rafael Heiss, M.D., Erlangen, Germany

Tues. Dec. 3, #MK362-SD-TUA2, *The Efficacy of Ultrasound-guided Suprascapular Nerve Radiofrequency Ablation in the Treatment of Chronic Shoulder Pain*, Mohammed A. Nabi, M.B.Ch.B., M.Sc., Oxford, U.K.

Wed. Dec. 4, #SSK14-01, *Augmented Reality and Artificial Intelligence-Based Navigation during Percutaneous Vertebroplasty*, Pierre Auloge, M.B.B.S., Reims, France

## **NEURORADIOLOGY**

Sun. Dec. 1, #NR420-SD-TUA6, *Automated Detection of Stroke on Non-contrast CT at Initial Presentation Using Texture Analysis and Machine Learning*, Shanker Raja, M.D., Bellaire, Texas

Tues. Dec. 3, #SSJ20, *Does the Carotid Artery Geometry Play a Role for the Stroke?* Luca Saba, M.D., Cagliari, Italy

Tues. Dec. 3, #NR379-SD-TUB1, *Increased Resting State Synchronization within the Motor Cortex following Post-Stroke Rehabilitation*, Anup K. Bhattacharya, Springfield, Pa.

Tues. Dec. 3, #NR377-SD-TUA2, *Wall Shear Stress Assessment Using Vector Flow Imaging Discriminates Between Subjects with and without Carotid Atherosclerosis in the Carotid Bifurcation*, Feliciano Lamacchia, M.D., Rome, Italy

## **NUCLEAR MEDICINE**

Sun. Dec. 1, #NM204-SD-SUB2, *18F-FDG PET/MRI of Patients with Chronic Pain Alters Management*, Peter Cipriano, B.A., Stanford, Calif.

## **PHYSICS**

Wed. Dec. 4, #PH260-SD-WEA5, *Performance of a First Dark-Field Chest X-ray System on Patients*, Konstantin Willer, Garching, Germany

## **VASCULAR/INTERVENTIONAL**

Sun. Dec. 1, #SSA24-05, *Efficacy of Thermal Ablation versus Stereotactic Radiotherapy for Stage I Lung Cancer: Subgroup Analyses Based on Tumor Histology*, Johannes Uhlig, Goettingen, Germany

**HIGH-IMPACT CLINICAL TRIALS**

Sun. Dec. 1, #SPCT10A, *MRI in Addition to Mammography Screening in Women with Extremely Dense Breasts: Primary Outcome of the Randomized DENSE Trial*, Stephanie V. de Lange, Utrecht, Netherlands

Sun. Dec. 1, #SPCT10B, *Discussant for MRI In Addition to Mammography Screening*, Christopher E. Comstock, M.D., New York, N.Y.

Sun. Dec. 1, #SPCT10C, *18F-FDG PET-MR Enterography in Predicting Histological Active Disease in Ulcerative Colitis: A Randomized Controlled Trial Using Nancy Index*, Yan Li, M.D., Essen, Germany

Sun. Dec. 1, #SPCT10D, *Discussant for 18F-FDG PET-MR Enterography*, Joel G. Fletcher, M.D., Rochester, Minn.

Sun. Dec. 1, #SPCT10E, *Clinical and Cost-Effectiveness Implications of Utilizing Immediate Acute Magnetic Resonance Imaging (MRI) in the Management of Patients with Suspected Scaphoid Fracture and Negative Initial Radiographs: Results from a Randomized Clinical Trial*, Tiago Rua, B.Sc., M.Sc., London, U.K.

Sun. Dec. 1, #SPCT10F, *Discussant for Clinical and Cost-Effectiveness Implications*, Garry E. Gold, M.D., Stanford, Calif.

Sun. Dec. 1, #SPCT10G, *Imaging-guided Target Volume Reduction in Radiotherapy of Lung Cancer: The Prospective Randomized Multinational PET-Plan Trial*, Ursula Nestle, M.D., Ph.D., Monchengladbach, Germany

Sun. Dec. 1, #SPCT10H, *Discussant for Imaging-guided Target Volume Reduction*, Daniel Pryma, M.D., Philadelphia, Pa.