

RSNA® 2019
DECEMBER 1-6

Molecular Imaging/Nuclear Medicine

**RADIOLOGICAL SOCIETY
OF NORTH AMERICA**
105TH Scientific Assembly
and Annual Meeting

Meeting.RSNA.org
#RSNA19

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 Symposiums 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

Sunday, Dec. 1, 2019

Case of the Day

Nuclear Medicine Sunday Case of the Day
Session ED010-SU Case of Day, Learning Center
Molecular Imaging Sunday Case of the Day
Session ED015-SU Case of Day, Learning Center

10:45 AM–12:15 PM

Scientific Papers Sessions

Science Session with Keynote: Molecular Imaging (Neuroimaging)
Session SSA13 S503AB
Nuclear Medicine (Genitourinary Oncology Nuclear Medicine and PET)
Session SSA16 S505AB

10:45 AM–12:15 PM

Educational Courses

Best Clinical Trials @ RSNA 2019
Session SPCT10 E352

12:30–1:00 PM

Posters and Exhibits: Discussions

Molecular Imaging Sunday Poster Discussion
Session MIS-SUA MI Community, Learning Center
Nuclear Medicine Sunday Poster Discussions
Session NMS-SUA NM Community, Learning Center

1:00–1:30 PM

Posters and Exhibits: Discussions

Molecular Imaging Sunday Poster Discussion
Session MIS-SUB MI Community, Learning Center
Nuclear Medicine Sunday Poster Discussions
Session NMS-SUB NM Community, Learning Center

2:00–3:30 PM

Educational Courses

Enhancing Your PET/CT Practice
Course RC111. S505AB
Emerging Technology: Imaging of Dementias and Movement Disorders Update 2019
Course RC117 S504CD
Innovations in Hybrid Imaging
Course RC121 E351

**4:00–5:45 PM****Plenary Sessions**

Sunday Afternoon Plenary Session

Session PS12 **Arie Crown Theater****Monday, Dec. 2, 2019****Case of the Day**

Nuclear Medicine Monday Case of the Day

Session ED010-MO **Case of Day, Learning Center**

Molecular Imaging Monday Case of the Day

Session ED015-MO **Case of Day, Learning Center****8:30–10:00 AM****Educational Courses**

Molecular Imaging Symposium: Basics of Molecular Imaging

Course MSMI21 **S405AB**

Advanced PET Imaging for Radiotherapy Planning and Response Assessment

Course RC222 **N229****8:30 AM–12:00 PM****Educational Courses**

Nuclear Medicine Series: New PET Tracers for Prostate Cancer

Course RC211 **S505AB****10:30 AM–12:00 PM****Educational Courses**

Molecular Imaging Symposium: Oncologic MI Applications

Course MSMI22 **S405AB****12:15–12:45 PM****Posters and Exhibits: Discussions**

Molecular Imaging Monday Poster Discussions

Session MIS-MOA **MI Community, Learning Center**

Nuclear Medicine Monday Poster Discussions

Session NMS-MOA **NM Community, Learning Center****12:45–1:15 PM****Posters and Exhibits: Discussions**

Molecular Imaging Monday Poster Discussions

Session MIS-MOB **MI Community, Learning Center**

Nuclear Medicine Monday Poster Discussions

Session NMS-MOB **NM Community, Learning Center****1:30–3:00 PM****Educational Courses**

Molecular Imaging Symposium: Neurologic MI Applications

Course MSMI23 **S405AB****1:30–3:30 PM****Educational Courses**

Contrastes y Trazadores: Estado del Art-Sesion del Colegio Interamericano de Radiologia (CIR) en Espanol/Contrast Agents and Radiopharmaceuticals: State of the Art-Session of Interamerican College of Radiology (CIR) in Spanish

Session SPSP21 **E353C****3:00–4:30 PM****Educational Courses**

RSNA AI Deep Learning Lab: Generative Adversarial Networks (GANs)

Session SPAI23 . . . **AI Showcase North Building Level 2****3:00–4:00 PM****Scientific Papers Sessions**

Nuclear Medicine (Cardiovascular PET)

Session SSE17 **S403A**

Physics (Nuclear Medicine)

Session SSE23 **E351****3:30–5:00 PM****Educational Courses**

Molecular Imaging Symposium: MI Theranostics

Course MSMI24 **S405AB****Tuesday, Dec. 3, 2019****Case of the Day**

Nuclear Medicine Tuesday Case of the Day

Session ED010-TU **Case of Day, Learning Center**

Molecular Imaging Tuesday Case of the Day

Session ED015-TU **Case of Day, Learning Center****7:15–8:15 AM****Educational Courses**

Hot Topic Session: Patient-facing Nuclear Medicine Clinics for Prostate Cancer

Session SPSH30 **E450B****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**



Review of Pediatric Nuclear Medicine

Course RC311 S504CD

Emerging Technologies: Prostate Cancer Imaging & Management - Update 2019

Course RC317 S505AB

10:30 AM-12:00 PM

Scientific Papers Sessions

Cardiac (CT, MRI, and Nuclear Medicine: General Topics)

Session SSG02 S104A

Molecular Imaging (New Tracers and Alternative Imaging Modalities)

Session SSG07 S505AB

Nuclear Medicine (Lymphoma PET)

Session SSG09 S504CD

10:30 AM-12:00 PM

Educational Courses

Case-based Review of Nuclear Medicine: PET/CT Workshop- Chest (In Conjunction with SNMMI) (Interactive Session)

Course MSCC32 E450B

RSNA AI Deep Learning Lab: Generative Adversarial Networks (GANs)

Session SPAI31 . . . AI Showcase North Building Level 2

12:15-12:45 PM

Posters and Exhibits: Discussions

Molecular Imaging Tuesday Poster Discussions

Session MIS-TUA MI Community, Learning Center

Nuclear Medicine Tuesday Poster Discussions

Session NMS-TUA NM Community, Learning Center

12:45-1:15 PM

Posters and Exhibits: Discussions

Molecular Imaging Tuesday Poster Discussions

Session MIS-TUB MI Community, Learning Center

Nuclear Medicine Tuesday Poster Discussions

Session NMS-TUB NM Community, Learning Center

1:30-3:00 PM

Educational Courses

Case-based Review of Nuclear Medicine: PET/CT Workshop- Abdomen/Pelvis & Pediatrics (In Conjunction with SNMMI) (Interactive Session)

Course MSCC33 E450B

3:00-4:00 PM

Scientific Papers Sessions

Molecular Imaging (Theranostics)

Session SSJ14 S504CD

Nuclear Medicine (CNS Nuclear Medicine and PET)

Session SSJ17 S505AB

3:30-5:00 PM

Educational Courses

Case-based Review of Nuclear Medicine: PET/CT Workshop- Advances in PET (In Conjunction with SNMMI) (Interactive Session)

Course MSCC34 E450B

4:30-6:00 PM

Educational Courses

Advances in Cardiac Nuclear Imaging: SPECT/CT and PET/CT

Course RC411 S504CD

Wednesday, Dec. 4, 2019

Case of the Day

Nuclear Medicine Wednesday Case of the Day

Session ED010-WE Case of Day, Learning Center

Molecular Imaging Wednesday Case of the Day

Session ED015-WE Case of Day, Learning Center

8:30-10:00 AM

Educational Courses

Update on Radionuclide Therapies

Course RC511 S504CD

Metabolic Tumor Imaging: Current and Beyond

Course RC518 S501ABC

10:30 AM-12:00 PM

Scientific Papers Sessions

Molecular Imaging (General Subspecialties)

Session SSK13 S505AB

Nuclear Medicine (Gastrointestinal Oncology Nuclear Medicine and PET)

Session SSK15 E451A

10:30 AM-12:00 PM

Educational Courses

BOOST: Lymphoma—Case-based Multidisciplinary Review (Interactive Session)

Course MSRO42 S103CD

12:15-12:45 PM

Posters and Exhibits: Discussions

Molecular Imaging Wednesday Poster Discussions

Session MIS-WEA MI Community, Learning Center

Nuclear Medicine Wednesday Poster Discussions

Session NMS-WEA NM Community, Learning Center

**12:45–1:15 PM****Posters and Exhibits: Discussions**

Molecular Imaging Wednesday Poster Discussions

Session MIS-WEB MI Community, Learning Center

Nuclear Medicine Wednesday Poster Discussions

Session NMS-WEB NM Community, Learning Center**1:00–2:30 PM****Educational Courses**

RSNA AI Deep Learning Lab: Generative Adversarial Networks (GANs)

Session SPAI42 AI Showcase North Building Level 2**3:00–4:00 PM****Scientific Papers Sessions**

Molecular Imaging (Oncology)

Session SSM16 S505AB

Nuclear Medicine (Head and Neck/Thyroid Nuclear Medicine and PET)

Session SSM18 S504CD**3:00–4:15 PM****Educational Courses**

BOOST: Advanced Techniques in Image-guided Therapy (Interactive Session)

Course MSRO44 S103CD**Thursday, Dec. 5, 2019****Case of the Day**

Nuclear Medicine Thursday Case of the Day

Session ED010-TH Case of Day, Learning Center

Molecular Imaging Thursday Case of the Day

Session ED015-TH Case of Day, Learning Center**7:15–8:15 AM****Educational Courses**

Keeping Radiology Weird: Spot Diagnoses from the Pacific Northwest (Case-based Competition)

Session SPDL50 E451B**8:30–10:00 AM****Educational Courses**

Head and Neck PET/CT: Clinical Approach

Course RC611 S504CD**10:30 AM–12:00 PM****Scientific Papers Sessions**

Science Session with Keynote: Molecular Imaging (Image Analysis and Quantification)

Session SSQ12 S501ABC

Nuclear Medicine (Breast/General Oncology Nuclear Medicine and PET)

Session SSQ14 S402AB**12:15–12:45 PM****Posters and Exhibits: Discussions**

Molecular Imaging Thursday Poster Discussions

Session MIS-THA MI Community, Learning Center

Nuclear Medicine Thursday Poster Discussions

Session NMS-THA. NM Community, Learning Center**12:45–1:15 PM****Posters and Exhibits: Discussions**

Molecular Imaging Thursday Poster Discussions

Session MIS-THB MI Community, Learning Center

Nuclear Medicine Thursday Poster Discussions

Session NMS-THB. NM Community, Learning Center**3:00–4:00 PM****Educational Courses**

Hot Topic Session: Imaging of Traumatic Brain Injury-Present and Future

Session SPSH54. E451A**4:30–6:00 PM****Educational Courses**

Advances and Updates in SPECT/CT

Course RC711 S504CD

Emerging Technology: PET/MRI Update 2019

Course RC717 S505AB**Friday, Dec. 6, 2019****8:30–10:00 AM****Educational Courses**

Emerging Technology: Theranosis-Molecularly Targeted Therapies 2019

Course RC817 E260**10:30 AM–12:00 PM****Scientific Papers Sessions**

Nuclear Medicine (Thoracic Oncology Nuclear Medicine and PET)

Session SST06 E353B



Posters and Exhibits Discussions

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

Sunday, Dec. 1, 2019

12:30–1:00 PM

Scientific Posters

Biochemical Recurrence with Low Values of PSA in Prostate Carcinoma after Radical Therapy: Sensibility of 68Ga-PSMA PET/CT

NM234-SD-SUA4 Station #4

Clinical Follow-Up after Imaging and Dosimetry for Yttrium-90 (90Y) Liver Radioembolization Using a SiPM-Based PET/CT Scanner

NM201-SD-SUA2 Station #2

Dynamic Contrast-Enhanced Magnetic Resonance Imaging for Monitoring The Anti-angiogenesis Efficacy in a C6 Glioma Rat Model Dynamic Contrast-Enhanced Magnetic Resonance Imaging for Monitoring the Anti-Angiogenesis Efficacy in a C6 Glioma Rat Model

MI215-SD-SUA3 Station #3

Evaluation of Parametrial Infiltration of Cervical Cancer Based on Voxel-based Segmentation in Integrated PET/MR: A Preliminary Study

MI201-SD-SUA2 Station #2

MRI Relaxometry for Tracking Nanoparticle Mediated Ablation Therapy of Colorectal Cancer Liver Metastasis

MI200-SD-SUA1 Station #1

Role of Functional Imaging for Response Assessment of Lu177-DOTATATE Therapy for Neuroendocrine Tumors

NM200-SD-SUA1 Station #1

Spectrum of Autoimmune Limbic Encephalitis on FDG PET/CT

NM202-SD-SUA3 Station #3

12:30–1:00 PM

Education Exhibits

Evaluation of Extrahepatic Shunting with 99mTc-MAA Hepatic Perfusion Before 90Y Radioembolization of HCC: A Concise Review

NM121-ED-SUA5 Station #5

Molecular Imaging and Theranostics in Pheochromocytoma and Paraganglioma

MI110-ED-SUA4 Station #4

Reassessing the Patterns of Response to Immunotherapy with PET Imaging: From Morphology to Metabolism

NM123-ED-SUA7 Station #7

Targeted Imaging of Gastro-Entero-Pancreatic Neuroendocrine Tumors with 68Ga-DOTATATE PET/CT and Simultaneous 68Ga-DOTATATE Gadoxetate PET/MRI

NM122-ED-SUA6 Station #6

1:00–1:30 PM

Scientific Posters

18F-FDG PET/MRI of Patients with Chronic Pain Alters Management

NM204-SD-SUB2 Station #2

Clinical Impact of FDG PET-CT in the Management of Cancer Patients: Experience in 9000 Cases

NM205-SD-SUB3 Station #3

Longitudinal Analysis of Molecular Imaging Identifies Short Term Recurrence in Glioblastoma Treated with Bevacizumab

MI216-SD-SUB3 Station #3

Relationship between Parameters of Intravoxel Incoherent Motion Diffusion-weighted Imaging with Ki-67 Level in Cervical Cancer

MI203-SD-SUB2 Station #2

The Utility of Positive 18F-FDG PET/CTs in Affecting Clinical Infectious Disease Management

NM203-SD-SUB1 Station #1

Ultrasound-Mediated Targeted Delivery of Dexamethasone Using Phase-Change Nanodroplets for the Treatment of Rheumatoid Arthritis

MI202-SD-SUB1 Station #1

Whole Prostate Total Lesion Activity on 18F-fluciclovine PET/CT and Prostate-Specific Antigen Level are Associated with the Presence of Metastasis at Primary Staging

NM235-SD-SUB4 Station #4

1:00–1:30 PM

Education Exhibits

Bringing Light on the Era of Immunotherapy: The Role of CT and PET/CT—What Should We Know?

NM126-ED-SUB7 Station #7

Differential Diagnosis of Atypical Parkinsonian Syndromes using 18F-FDG PET/CT

NM125-ED-SUB6 Station #6

Not For the Young at Heart: Cardiac TTR Amyloid Nuclear Imaging - Technique, Pathology, and Incidental Findings

NM124-ED-SUB5 Station #5

Peptide Receptor Radionuclide Therapy (PRRT): 2019 Update

MI111-ED-SUB4 Station #4



Monday, Dec. 2, 2019

12:15–12:45 PM

Scientific Posters

18F-fluciclovine PET/CT in Primary Staging of Prostate Cancer

NM232-SD-MOA4 **Station #4**

Comparison of Metabolic Changes in the Liver with Hepatitis B Virus Infection and Fibrotic Change Using in Vivo

Hyperpolarized ¹³C MR Spectroscopy: A Preliminary Study
MI204-SD-MOA1 **Station #1**

Diagnostic Performance FDG PET/CT-Guided Metabolic Biopsies in Thoracic Lesions

NM206-SD-MOA1 **Station #1**

Effect of Tract Ablation to Reduce Viable Tumor Cell Adhering in the Electrode After Radiofrequency Ablation for Tumor

MI205-SD-MOA2 **Station #2**

Fluorine-18 Labeled Hydroxyphenethylguanidines: Prospective PET Imaging Agents for the Detection and Localization of Adrenergic Malignancies

NM208-SD-MOA3 **Station #3**

Inflammation in Acute Aortic Intramural Hematoma: CTA and PET/CT Correlation

NM230-SD-MOA5 **Station #5**

The Role of FDG-PET/CT in the Staging and Restaging of Cholangiocarcinoma: Results of a 10-Year Analysis

NM207-SD-MOA2 **Station #2**

12:15–12:45 PM

Education Exhibits

Emergent Findings on PET/CT

NM127-ED-MOA6 **Station #6**

Finding the Target for Therapy by Imaging: A Comprehensive Review of the Theranostics (Re)Emerging in Nuclear Medicine

NM128-ED-MOA7 **Station #7**

Superparamagnetic Iron Oxide Nanoparticles: Applications and Developments in Diagnostics and Therapy

MI112-ED-MOA3 **Station #3**

12:45–1:15 PM

Scientific Posters

18F-FDG PET/CT Predicts the Expression of PD-1/PD-L1 Before Immunotherapy in Multiple Cancer Types

NM209-SD-MOB1 **Station #1**

18F-FTC-146 PET/MR in Women with Chronic Pelvic Pain: Early Results

NM210-SD-MOB2 **Station #2**

Comparison of 18F-Fluciclovine PET/CT with Conventional Imaging in Prostate Cancer Patients with Biochemical Recurrence

NM233-SD-MOB4 **Station #4**

Non-blood Sampling Assessment for Quantitative Cerebral Blood Flow in PET with ¹⁵O-labeled Oxygen Gas: Comparison with an Invasive Arterial Blood Sampling Method

NM211-SD-MOB3 **Station #3**

Preliminary Study of Integrin $\alpha v \beta 3$ targeted USPIO/DiD-PLGA-RGD Nanospheres for Magnetic Resonance and Fluorescence Bimodal Imaging of Gliomas

MI207-SD-MOB2 **Station #2**

Simultaneous Measurement of Split Renal Glomerular Filtration Rate, Effective Renal Plasma Flow and Regional Quantitative Imaging Using Model Analysis of Dynamic Area Detector CT Images

MI206-SD-MOB1 **Station #1**

Trends in Brain Death Scintigraphy at a Tertiary Care Trauma Center

NM231-SD-MOB5 **Station #5**

12:45–1:15 PM

Education Exhibits

A Beginner's Guide to [¹⁷⁷Lu]DOTATATE Peptide Receptor Radionuclide Therapy

MI113-ED-MOB3 **Station #3**

Prostate Cancer Imaging with 18F-Fluciclovine PET/CT: Physiologic Distribution, Clinical Applications, Interpretation Criteria and Pitfalls

NM129-ED-MOB6 **Station #6**

What is That Bright Spot? Mimics and Pitfalls in PET CT Scans in Oncological Imaging

NM130-ED-MOB7 **Station #7**

Tuesday, Dec. 3, 2019

12:15–12:45 PM

Scientific Posters

Correlation between ^{99m}Tc-PYP Cardiac Accumulation Using SPECT/CT PYP Cardiac Accumulation and Cardiac Disturbance in Familial Amyloid Polyneuropathy Patients with Cardiac Amyloidosis

NM214-SD-TUA3 **Station #3**

Facile Preparation of Near-Infrared Fluorescence and Magnetic Resonance Dual-Modality Imaging Probes Based on Mesoporous Organosilica Nanoparticles

MI219-SD-TUA3 **Station #3**



FDG PET/MRI Analysis in Neurodegenerative Disorders: How Strong is the Correlation between Volumetric Analysis and Hypometabolism?

NM241-SD-TUA5 **Station #5**

Impact of PET/CT on Clinical Management in Patients with Cancer of Unknown Primary

NM240-SD-TUA4 **Station #4**

In Vivo Multimodal Imaging and Phototherapy of Triple-Negative Breast Cancer Using a Cathepsin B-Activated Probe

MI220-SD-TUA4 **Station #4**

Performance of 18F Cerenkov Luminescence Detection on General Optical Imaging Devices

MI208-SD-TUA1 **Station #1**

Relationship between Decreased Cerebral Blood Flow in 123I-IMP SPECT and the Severity of Postoperative Memory Impairment of Anterior Communicating Artery Aneurysm: A Pilot Study

NM212-SD-TUA1 **Station #1**

Simultaneously Calculation of Concentration of Contrast Media, Relaxivity, and Oxygen Extraction Fraction using Quantitative Parameter Mapping

MI209-SD-TUA2 **Station #2**

The Utility of FDG-PET/CT in the Staging and Restaging of Orbital Malignancies

NM213-SD-TUA2 **Station #2**

12:15–12:45 PM

Education Exhibits

Histiocytoses and Neoplasms of the Macrophage-Dendritic Cell Lineages: Multimodality Imaging with PET/CT Emphasis

NM131-ED-TUA6 **Station #6**

Next Generation Sequencing for the Practicing Radiologist

MI006-EB-TUA **Hardcopy Backboard**

Spectrum of Incidental Vascular Findings on 18F-FDG PET/CT Imaging

NM132-ED-TUA7 **Station #7**

12:45–1:15 PM

Scientific Posters

Clinical Significance of FDG Uptake by Bone Marrow on the Prognosis of Head and Neck Squamous Cell Carcinoma

NM221-SD-TUB1 **Station #1**

CT-based Radiomic Features as Prognostic Factors in ALK-positive Non-small-cell Lung Cancer

MI210-SD-TUB1 **Station #1**

Effects of New Block Sequential Regularized Expectation Maximization (BSREM) Reconstruction Algorithm on Visualization and Quantification of Small Abdominal Malignant Tumors in FDG PET-CT Examinations

NM242-SD-TUB4 **Station #4**

Qualitative [18F] FDG PET/MRI Assessment of Hypometabolism Patterns in Suspected Corticobasal Degeneration Syndromes

NM243-SD-TUB5 **Station #5**

Role of a Portable Gammacamera for the Assessment of Margins Involvement after Radioguided Surgery of Pulmonary Nodules

NM217-SD-TUB3 **Station #3**

The Use of Near Infrared Radiation Spectroscopy (NIRS) in Reconstructing 3D Oxygenated Dynamic Images as Biomedical Evidence in Monitoring Diabetic Foot

MI221-SD-TUB2 **Station #2**

The Value of Multifunctional Caramelized Fe₃O₄ Nanospheres in Magnetic Resonance Imaging, MRI, and Photothermal Therapy for Breast Cancer

MI222-SD-TUB3 **Station #3**

Variable Scintigraphic Presentations of Parathyroid Gland Hyperplasia on Parathyroid Scintigraphy: Results of a Multi-Year Analysis

NM216-SD-TUB2 **Station #2**

12:45–1:15 PM

Education Exhibits

Radioisotope Safety Exam: What Every Radiology Resident Needs to Know to Pass the Exam

NM133-ED-TUB7 **Station #7**

Tumor and Tumor-Like Diffuse Peritoneal Diseases on CT and FDG-PET/CT: A Correlation with Pathologic Findings

NM134-ED-TUB6 **Station #6**

Wednesday, Dec. 4, 2019

12:15–2:45 PM

Scientific Posters

A Multi-site Phantom Study to Quantify Variation of Hypoxic Fraction Measurement with PET

MI211-SD-WEA1 **Station #1**

Can Whole-Body MRI Help to Improve the Assessment of the Bone Scan 'Flare Effect' in Patients with Prostate Bone Metastases?

MI224-SD-WEA3 **Station #3**



Comparison of 68Ga-DOTATOC PET-MRI and MR-DWI for Whole-Body Staging of Patients with Neuroendocrine Tumors
NM245-SD-WEA5 Station #5

Convolution Neural Network in Grading of Parkinson Syndrome on Dopamine Transporter Single Photon Emission CT (DaT-SPECT) with (123I) Ioflupane
NM219-SD-WEA2 Station #2

Malignancy Probabilistic Model in Mediastinal and Hilar Lymph Nodes in Lung Cancer Based on PET/CT and EBUS
NM218-SD-WEA1 Station #1

MUO-Metastasis of Unknown Origin in Head and Neck-Role of FDG PET CT in Finding the Culprit
NM244-SD-WEA4 Station #4

Whole-Body [18F]FDG-PET/MRI versus [18F]FDG-PET/CT in Melanoma Patients
NM220-SD-WEA3 Station #3

Whole-Body DWI in Lymphoma – First Order Global ADC Histogram Parameters Discriminate Lymphomatous Nodes from Normal Lymph Nodes
MI223-SD-WEA2 Station #2

12:15–12:45 PM

Education Exhibits

“Virtual Planar Image” Reconstructed from SPECT Data: How to Process and Its Clinical Feasibility
NM135-ED-WEA6 Station #6

Imaging in Chronic ThromboEmbolic Pulmonary Hypertension
NM136-ED-WEA7 Station #7

12:45–1:15 PM

Scientific Posters

18 F-PET/MRI versus Contrast-Enhanced MRI in Detecting Loco-Regional HNSCC Nodal Metastases
NM246-SD-WEB4 Station #4

18F-FMISO PET May Be Applicable in The Evaluation of Colorectal Cancer Liver Metastasis
MI225-SD-WEB2 Station #2

Correlation of Wall Shear Stress on MR Angiography with 18F-FDG and 18F-NaF Uptake on PET/CT in Patients with Carotid Artery Stenosis
NM215-SD-WEB1 Station #1

Early-Phase F-18 Florbetaben PET as an Alternative Modality for Diagnosis of Dementia
NM223-SD-WEB3 Station #3

FDG Uptake of Bone Marrow on PET Has Prognostic Potential for Predicting Distant Recurrence in Breast Cancer Patients After Surgical Resection
NM222-SD-WEB2 Station #2

Knowing the Unknown-Utility of FDG PET CT in Evaluation of Pyrexia of Unknown Origin-PUO
MI226-SD-WEB3 Station #3

The Slow Component Apparent Diffusion Coefficient (ADC) is Replaced by Washout of the Dynamic Contrast Enhancement (DCE) Study for Prostate Cancer
MI212-SD-WEB1 Station #1

Using Artificial Intelligence to Quantify Simultaneous FDG and [68Ga]DOTATATE Neuroendocrine Tumor PET Imaging
NM247-SD-WEB5 Station #5

12:45–1:15 PM

Education Exhibits

A Pictorial Review of Positron Emission Tomography with 18F-FDG in Rheumatoid Arthritis
NM137-ED-WEB6 Station #6

Nuclear Scintigraphy in Adult Congenital Cardiovascular Diseases
NM138-ED-WEB7 Station #7

Thursday, Dec. 5, 2019

12:15–12:45 PM

Scientific Posters

A Radiomics Signature Based on 18F-FDG PET-CT for Classification of Tumor Histopathology in Non-Small Cell Lung Cancer
NM237-SD-THA5 Station #5

Association between 18F-fluoromisonidazole Uptake Heterogeneity and Isocitrate Dehydrogenase 1 Mutation in Patients with Newly Diagnosed High-Grade Gliomas
NM224-SD-THA1 Station #1

Basic Research on AQP9-MR Molecular Imaging of HCC: The Differential Expression of AQP9 in HCC Tumor Tissues
MI213-SD-THA1 Station #1

Multi-Molecular Probe-Based Micro PET Imaging Combined with Tumor Markers in Predicting Colorectal Cancer Liver Metastasis
NM226-SD-THA3 Station #3

Prediction of Therapy Response in Soft Tissue Sarcoma Based on Multi-Dimensional PET/MRI
NM236-SD-THA4 Station #4

Radiomics Features as a Predictor of Survival in Patients Affected by Pulmonary Metastatic Melanoma
MI217-SD-THA2 Station #2



The New Perspective of PET/CT for Axillary Node Staging in Breast Cancer Patients According to ACOSOG Z0011 Trial
NM225-SD-THA2 **Station #2**

12:15–12:45 PM

Education Exhibits

How We Do It: A Multidisciplinary Approach to Lu- 177
Dotatate PRRT (Peptide Receptor Radionuclide Therapy)
NM139-ED-THA6 **Station #6**

Tc-99m MAG3 Renogram is a Useful Non-Invasive Diagnostic Tool to Evaluate Renal Function After Carbon-Ion Radiotherapy (CIRT) in Patients with Renal Cell Carcinoma
NM140-ED-THA7 **Station #7**

12:45–1:15 PM

Scientific Posters

18F FDG as a Prognostic Imaging Biomarker in the Rra of LIRADS Diagnosis of Hepatocellular Carcinoma (HCC)
NM239-SD-THB5 **Station #5**

Association between 18F-FDG Uptake Heterogeneity and p16-Expression in Patients with Oropharyngeal Squamous Cell Carcinoma
NM228-SD-THB2 **Station #2**

Clinical Utility of 18FDG-PET/CT in Treatment Response Assessment and Follow-Up of Lung Tumors Treated with Stereotactic Body Radiotherapy
NM238-SD-THB4 **Station #4**

Correlation of the Prognostic Value between Deauville and RECIL Therapy Response Scales in Hodgkin Lymphoma
NM227-SD-THB1 **Station #1**

CT Radiomic Features Predicting Epidermal Growth Factor Receptor Mutation Status of Exon 19 and Exon 21 in Lung Adenocarcinoma
MI218-SD-THB2 **Station #2**

Fe3+@PolyDOPA-b-Polysarcosine, a T1-Weighted MRI Contrast Agent via Controlled NTA Polymerization
MI214-SD-THB1 **Station #1**

Usefulness of Combined Analysis Using Both FDG-PET and Diffusion MRI in Predicting Overall Survival in Invasive Ductal Pancreatic Cancer
NM229-SD-THB3 **Station #3**

12:45–1:15 PM

Education Exhibits

Beyond Pulmonary Embolism (PE): A Pictorial Review of the Mimickers of PE and Incidental Findings on Ventilation/Perfusion (V/Q) Scintigraphy
NM141-ED-THB6 **Station #6**

Complexities and Complications: Lessons Learned in Developing a Lu-177 Theranostic Service from Research Trial to Clinical Practice
NM142-ED-THB7 **Station #7**



Education Exhibits

SPACE No.	EXHIBIT TITLE		
MI001-EB-X	Role of Imaging in Treatment Response Evaluation of Chimeric Antigen Receptor (CAR) T Cell Therapy in Patients with Diffuse Large B-Cell Lymphoma (DLBCL)	MI109-ED-X	Imaging-Guided Precision Medicine in Cancer Patients Treated with Immune Checkpoint Blockers
MI002-EB-X	The Nuclear Radiologist's GPS of the Neck: The Neighborhoods of Lymph Nodes, Spaces, and Anatomical Land Marks by PET/CT and Multiple Imaging Modalities	NM001-EB-X	Stranger Things: Multimodality Imaging of Diffuse Renal Lesions
MI003-EB-X	Spotlight on Clinical PET/MR: Colorectal Cancer - All You Need to Know	NM002-EB-X	The Future of Nuclear Medicine and Musculoskeletal Radiology: Fusion Imaging
MI004-EB-X	Demystifying Diffusion-Weighted MR Imaging: From Biophysical Basis to Evolving Imaging Biomarker	NM100-ED-X	Utility of Nuclear Medicine Three Phase Bone Scan in the Evaluation of Frostbite
MI005-EB-X	Circulating Tumor DNA (ctDNA) - A Potential Adjunct to FDG-PET Imaging in Cancer Follow Up	NM101-ED-X	Radionuclide Imaging of Cardiac Amyloidosis and Sarcoidosis: Demonstration of SPECT and PET Images Using Various Radiotracers
MI100-ED-X	Review of Ga-68 Dotatate PET/CT for Neuroendocrine Neoplasms: Atypical Sites of Metastasis and Unusual Findings	NM102-ED-X	Fever of Unknown Origin and the Role of 18F-FDG PET-CT: Frequently Encountered Pathology
MI101-ED-X	Not All that Glows is Prostate Cancer: False Positives in Ga68 PSMA PET CT for Prostate Cancer Imaging - A Pictorial Review	NM103-ED-X	Ga-68 Dotatate PET/CT: Case-Based Review from the First Few Years of Use at a Large Academic Center
MI102-ED-X	3D Stereotactic Surface Projection of 18F-FDG Brain PET Improves Diagnosis of Neurological Disorders	NM104-ED-X	DaTscan Quantitation Improving the Confidence of Visual Interpretation
MI103-ED-X	PET/CT in Multiple Myeloma: An Up-to-Date for Radiologists in Training	NM105-ED-X	An Update of Radioactive Iodine Therapy Guidelines in Pediatric Patients with Thyroid Cancer
MI104-ED-X	Synthetic MRI: Is that for You? Is that for Everyone?	NM106-ED-X	"State-of-the-Art" Imaging of Neuroendocrine Tumors: How to Incorporate High-end Anatomic, Somatostatin Receptor, and Metabolic Imaging
MI105-ED-X	Somatostatin Receptor-based Molecular Imaging in Diagnosis of Recurrent Meningioma	NM107-ED-X	Tl-201 Scintigraphy of Various Musculoskeletal Tumor According to WHO 2013 Classification
MI106-ED-X	Beyond the Basics: 68Ga-DOTA-TATE PET/CT Pearls and Pitfalls	NM108-ED-X	Lutetium Lu-177 Dotatate Challenges: Side Effects, Complications, and Disease Progression
MI107-ED-X	Nuclear Medicine and Molecular Imaging in the Era of Theranostics	NM109-ED-X	Peptide Imaging with Somatostatin Analogs for Therapy Response Assessment of Neuroendocrine Tumors
MI108-ED-X	Reporter Gene Imaging and Its Potential Role in Drug Development	NM110-ED-X	Review of Imaging of Neuroendocrine Tumors Utilizing 68Ga-DOTATATE PET/CT
		NM111-ED-X	Lutetium (Lu-177) Radiolabeled Somatostatin Receptor Agonist Therapy in Neuroendocrine Tumors



- NM112-ED-X** Tumor-Induced Osteomalacia: What an Imaging Physician Should Know?
- NM113-ED-X** State-of-the-Art of PET/MR for Rectal Cancer: The Added Value to Conventional Imaging Work-Up
- NM114-ED-X** Monitoring Treatment of Lymphoma Using 18F-FDG PET/CT: Now and Then to the Future
- NM115-ED-X** Immune Checkpoint Inhibitor Therapy: What Every PET Reader Needs to Know
- NM116-ED-X** PET/MRI Neck Imaging: Applications, Protocols and Institutional Experience
- NM117-ED-X** Therapy Assessment of Metastatic Prostate Cancer on PSMA PET Imaging: How to Recognize the Patterns of Disease Response
- NM118-ED-X** Bone Scintigraphy Overview: Flash Cards for Residents
- NM119-ED-X** PSMA PET Imaging for Detection and Primary Staging of Prostate Cancer: Incremental Value Over Conventional Imaging Work-Up
- NM120-ED-X** FDG PET/CT Findings of Hepatic Tumor and Tumor-like Lesions Based on Molecule Background



Diverse Radiology for a Diverse World.

Join RSNA today.

**Our members are
fostering effective
change for radiology's
future—and so can you.**

Together we are
creating radiology that
reflects our world,
advances your career
and gives you the tools
you need to succeed.



We Are Radiology.
Join RSNA today

[RSNA.org/membership](https://www.rsna.org/membership)

8:30 AM–4:30 PM CT • membership@rsna.org
1-877-RSNA-MEM (776-2636) • 1-630-571-7873

RSNA[®]
Radiological Society
of North America



RSNA QUALITY ESSENTIALS AND ADVANCED LEVEL QUALITY CERTIFICATES

- Earn a Quality Essentials Certificate (QEC) by scoring 80% or higher on the SAM test at any of the following quality sessions: MSQI31, MSQI32 and MSQI33 on Tuesday, December 3 (Room TBD)
- Learn more about online opportunities for earning QECs and how QECs can lead to an Advanced Level Quality Certificate at [RSNA.org/Quality-Improvement](https://www.rsna.org/Quality-Improvement)

QUALITY IMPROVEMENT REPORTS: TIPS FOR SUCCESSFUL SUBMISSIONS

Monday, December 2nd, 10:30 – 11 am, Discovery Theater

Get tips on tailoring your submission to meet the unique guidelines of this poster section.

QI REPORT POSTER WALKTHROUGH

Monday, December 2nd, 3 to 4 pm, Learning Center, Quality Improvement Report Section

Join experts in quality improvement in radiology, as they walk through the QI Report posters, highlighting examples of great work and sound methodology. Bring your walking shoes and come prepared for an interactive session.

Those who are interested in leading and publishing QI projects in the coming months and years will find this especially valuable.

Questions? Please email quality@rsna.org for more information.