

MOLECULAR IMAGING/NUCLEAR MEDICINE

**104TH Scientific Assembly
and Annual Meeting**

Radiological Society of North America
McCormick Place, Chicago

November 25–30

Meeting.RSNA.org #RSNA18

RSNA[®] 2018
TOMORROW'S
RADIOLOGY TODAY 

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 Symposiums will be provided through a third party provider and not through RSNA.

Walk Through The Week

SATURDAY, NOV 24, 2018

12:00–2:00 PM

Educational Courses

AAPM/RSNA Physics Tutorial Session 1

Session SPPH01 E351

2:15–4:15 PM

Educational Courses

AAPM/RSNA Physics Tutorial Session 2

Session SPPH02 E351

SUNDAY, NOV 25, 2018

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

Molecular Imaging (Brain)

Session SSA13 S504CD

Nuclear Medicine (Chest and Cardiovascular Nuclear Imaging)

Session SSA16 S505AB

Vascular Interventional (Chemo-Embolization and Radio-Embolization)

Session SSA25 S503AB

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 Discussions

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**

Update on Imaging in Dementia

Course RC105E451A

Update on Radionuclide Therapies

Course RC111. S505AB**MONDAY, NOV 26, 2018****Case of the Day**

Nuclear Medicine Monday Case of the Day

Session ED010-MOCase of Day, Learning Center

Molecular Imaging Monday Case of the Day

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

Molecular Imaging Symposium: Basics of Molecular Imaging

Course MSMI21 S405AB**8:30 AM–12:00 PM****Educational Courses**

Neuroradiology Series: Brain Tumors

Course RC205. S406B

Nuclear Medicine Series: New PET Tracers for Prostate Cancer (Interactive Session)

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

Evolving Imaging Methods for the Cancer Patient - Part 2 (Interactive Session)

Course MSAS22 S105AB

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**3:00–4:00 PM****Scientific Papers Sessions**

Nuclear Medicine (Central Nervous System Nuclear Imaging)

Session SSE17 S505AB

Pediatrics (Oncology and Nuclear Medicine)

Session SSE21 E353B**3:30–5:00 PM****Educational Courses**

Molecular Imaging Symposium: MI Case-based Discussion

Course MSMI24. S405AB**4:30–6:00 PM****Educational Courses**

Special Interest Session: Imaging Cognition 2018: Addiction

Session SPSI22 E353C**TUESDAY, NOV 27, 2018****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**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**

Advances and Updates in SPECT/CT

Course RC311 S504CDChallenging Cases in Body Oncologic Imaging (Interactive
Session)**Course RC318 E353A****10:30 AM–12:00 PM****Scientific Papers Sessions**

Molecular Imaging (Oncology)

Session SSG07 S504CD

Nuclear Medicine (Gastrointestinal Oncology Nuclear Imaging)

Session SSG09 S505AB

Neuroradiology (Molecular Neuroimaging: From Diffusion to Beyond)

Session SSG11 E351

10:30 AM–12:00 PM

Educational Courses

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

Course MSCC32 E450B

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 PET/CT (In Conjunction with
SNMMI) (Interactive Session)

Course MSCC33 E450B

1:30–2:30 PM

Scientific Papers Sessions

BOOST: Lung, Mediastinum and Pleura

Session MSR037 S103CD

3:00–4:00 PM

Scientific Papers Sessions

Breast Imaging (US Advanced Applications)

Session SSJ02 E353C

Cardiac (Myocardial Disease)

Session SSJ03 E353A

Science Session with Keynote: Cardiac (Oncology)

Session SSJ04 E260

Science Session with Keynote: Chest (Thoracic MRI)

Session SSJ05 S404AB

Molecular Imaging (Novel Multi-Modal Applications)

Session SSJ14 S505AB

Science Session with Keynote: Nuclear Medicine (Chest/
Breast Oncology Nuclear Imaging)

Session SSJ17 S504CD

Physics (Image Reconstruction)

Session SSJ22 N227B

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

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

WEDNESDAY, NOV 28, 2018

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

Head and Neck PET/CT: Clinical Approach

Course RC511 S504CD

Emerging Technology: PET/MRI Update 2018

Course RC517 S505AB

Metabolic Tumor Imaging: Current and Beyond

Course RC518 N229

Advanced PET Imaging for Radiotherapy Planning and
Response Assessment

Course RC522 N226

10:30 AM–12:00 PM

Scientific Papers Sessions

Cardiac (CT, MRI and PET: General Topics)

Session SSK03 S102CD

Molecular Imaging (New Tracers)

Session SSK12 S504CD

Nuclear Medicine (Lymphoma, Sarcoma and Melanoma)

Session SSK14 **S505AB**

10:30 AM–12:00 PM

Educational Courses

BOOST: Lymphoma-Oncology Anatomy and Case-based
Multidisciplinary Review (Interactive Session)

Course MSR042 **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**

3:00–4:00 PM

Scientific Papers Sessions

Molecular Imaging (Oncology Therapy)

Session SSM14 **S505AB**

Nuclear Medicine (Thyroid/Parathyroid Imaging and Therapy)

Session SSM16 **S504CD**

3:00–4:15 PM

Educational Courses

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

Course MSR044 **S103CD**

THURSDAY, NOV 29, 2018

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

Hot Topic Session: Beyond FDG: Advancing PET Imaging of
the Human Disease

Session SPSH50 **E353A**

8:30–10:00 AM

Educational Courses

Advances in Cardiac Nuclear Imaging: SPECT/CT and PET/CT
Course RC611 **S504CD**

Advanced Breast Imaging Technologies
Course RC615 **E451A**

Emerging Technologies: Prostate Cancer Imaging & Management - Update 2018
Course RC617 **S505AB**

10:30 AM–12:00 PM

Scientific Papers Sessions

Chest (Functional Lung Imaging/Dual-Energy CT/Radiation Dose Reduction)
Session SSQ05 **E353B**

Molecular Imaging (Musculoskeletal, Gastrointestinal, Cardio)
Session SSQ12 **S504CD**

Nuclear Medicine (Technical Innovations and Emerging Opportunities)
Session SSQ14 **S505AB**

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: Biomarker and Personalized Medicine in Lung Cancer Imaging
Session SPSH52 **E350**

Hot Topic Session: Immunotherapy for Cancer-A Demanding New Imaging Frontier
Session SPSH54 **S503AB**

4:30–6:00 PM

Educational Courses

Improving PET Interpretation (Interactive Session)
Course RC711 **S504CD**

Emerging Technology: Imaging of Dementias

Course RC717 S505AB

FRIDAY, NOV 30, 2018

8:30–10:00 AM

Educational Courses

Review of Pediatric Nuclear Medicine

Course RC811 E263

10:30 AM–12:00 PM

Scientific Papers Sessions

Chest (Thoracic Malignancy)

Session SST02 E350

Nuclear Medicine (Abdomen and Pelvis Nuclear Imaging)

Session SST06 E261

Physics (Nuclear Medicine, Quantitative Image Analysis in Imaging and Radiation Therapy)

Session SST09 E264

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

Chemical Exchange Saturation Transfer Imaging for Brain Tumors

MI203-SD-SUA4 Station #4

Evaluation of a Fast Protocol for Staging Patients with Bronchial Cancer Using PET/MRI

NM200-SD-SUA1 Station #1

Multimodal Perfusion Study in an Experimental Ex Vivo Pig Kidney Phantom Using Digital Subtraction Angiography, Magnetic Resonance Imaging, and Magnetic Particle Imaging

MI202-SD-SUA3 Station #3

Noninvasive Early Detection and Dynamic Mapping of Liver Fibrosis and Cancer Heterogeneity by Collagen-Targeted Protein MRI Contrast Agent

MI200-SD-SUA1 Station #1

Quantitative Assessment of Aging and Long-Term Interval Changes on Lung FDG Uptake with using PET/CT Imaging
NM203-SD-SUA4..... **Station #4**

Role of Tri-PET in Managing Indolent Lymphomas
NM202-SD-SUA3..... **Station #3**

Value of Quantitative Parameters and Metabolic Heterogeneity of 18F-FDG PET/CT to Predict Prognosis in Patients with Primary Oropharyngeal Carcinoma
NM201-SD-SUA2..... **Station #2**

12:30–1:00 PM

Education Exhibits

Personalizing Immune-Oncology Therapies by Imaging Guided Adaptive Strategies
MI002-EB-SUA..... **Hardcopy Backboard**

The Renaissance of Thallium SPECT in Neuro-Oncology: A Pictorial Review of Radiation Necrosis versus Tumour Recurrence
NM002-EB-SUA..... **Hardcopy Backboard**

1:00–1:30 PM

Scientific Posters

68Ga-Labelled PSMA-11 PET/CT in Prostate Cancer Patients for Primary Staging and Localization of Biochemical Relapse
NM205-SD-SUB2..... **Station #2**

Acquisition Protocol Optimization for 68ga-PSMA PET/MR Studies Based on Image Quality and Lesion Detectability
NM206-SD-SUB3..... **Station #3**

DWI with FASE Sequence at a 3T System vs. DWIs with EPI Sequence at 1.5T and 3T Systems vs. FDG-PET/CT: Quantitative Capability for Differentiating Malignant from Benign Solitary Pulmonary Nodules
MI206-SD-SUB3..... **Station #3**

Ex-vivo Monitoring of Hyperpolarized [1-¹³C] Pyruvate Metabolism in Human Breast Cancer Xenograft Tumor Slices
MI205-SD-SUB2..... **Station #2**

Global Analysis of FDG and PiB PET and the Assessment of Joint FDG+PiB Image Analysis of 107 Deceased Dementia Patients in Comparison to Their Autopsy-Verified Diagnoses
NM204-SD-SUB1..... **Station #1**

Global Metabolic Activity of the Rectus Abdominis Muscle with 18F-FDG-PET/CT: Emphysema Patients versus Control Subjects
NM207-SD-SUB4..... **Station #4**

Radiolabeled Monoclonal Antibody BC8: Differences in Biodistribution and Dosimetry Among Hematologic Malignancies
MI204-SD-SUB1..... **Station #1**

Timely Visualizing the Collaterals Formed During Acute Ischemic Stroke with Fe₃O₄ Nanoparticle-Based MR Imaging Probe

MI207-SD-SUB4 **Station #4**

1:00–1:30 PM

Education Exhibits

Hybrid Multiparametric 3 Tesla PET/MRI in Pelvic

Malignancies: From Protocol Design to Clinical Application

MI116-ED-SUB5 **Station #5**

Oncologic Applications of 18F-Fluorodopa: Current Concepts on a Case-Based Approach

NM141-ED-SUB5 **Station #5**

MONDAY, NOV 26, 2018

12:15–12:45 PM

Scientific Posters

[18F]-Fluoroestradiol PET Imaging of Tumors with Activating Mutations at Tyrosine-537 in Estrogen Receptor Alpha in Breast Cancer

MI208-SD-MOA1 **Station #1**

18F-Alfatide PET/CT in Assessment of Locoregional Lymph Nodes in Thoracic Esophageal Squamous Cell Cancer: Comparison with 18F-FDG PET/CT

NM209-SD-MOA2 **Station #2**

Added Value of 68ga-Psma Ligand PET/CT over Low-Dose CT in Characterisation of Skeletal Lesions in Prostate Cancer: A Retrospective Insight

NM212-SD-MOA5 **Station #5**

Correlation of Simultaneously-Acquired SUV of 18FDG and Apparent Diffusion Coefficient in Soft Tissue and Bone Tumors Using Voxel-By-Voxel Analysis

NM210-SD-MOA3 **Station #3**

Elucidating Mechanisms of Acute Sports Concussion with PET/MRI

NM211-SD-MOA4 **Station #4**

Is there a Correlation Between Levels of PSA and SUVmax Values in Patients Evaluated with [68Ga]PSMA PET/CT to be Applied in Prostatic Cancer Patient Follow Up and as a Prognosis Factor?

NM208-SD-MOA1 **Station #1**

Lack of Immune Response Following Ultrasound Adenoviral Gene Transfer in a Mouse Cancer Model

MI210-SD-MOA3 **Station #3**

Molecular US Characterization of Metastatic Sentinel Lymph Nodes in Melanoma

MI209-SD-MOA2 **Station #2**

12:15–12:45 PM

Education Exhibits

Clinical Pediatric PET/MR Program: A Guide to Successful Implementation

NM142-ED-MOA6 **Station #6**

Pancreatic Neuroendocrine Tumors (pNETs) Recognized in New AJCC Staging System 8th Edition: What Radiologists Need to Know

MI117-ED-MOA4 **Station #4**

12:45–1:15 PM

Scientific Posters

Comparing F18-Fluorodeoxyglucose Positron Emission Tomography with MRI (F18-FDG PET-MRI), F18-FDG PET-CT and MRI Imaging for Staging and Restaging of Head and Neck Cancer (HNC)

NM215-SD-MOB3 **Station #3**

Diagnostic Utility of 68-Gallium-Prostate Specific Membrane Antigen Positron Emission Tomography-Computed Tomography (68-Ga- PSMA PET-CT) in High and Intermediate Risk Prostate Cancer

MI213-SD-MOB3 **Station #3**

Imaging of Peptide Functionalized Nanoparticles Using T1 Mapping in Detecting Marginal Infiltration of GBM

MI212-SD-MOB2 **Station #2**

In Vivo Imaging of the Tumor Microenvironment Allows for Estimation of Local Invasive and Metastatic Potential

MI211-SD-MOB1 **Station #1**

Intraindividual Comparison of Subsequently Performed PET/MRI to PET/CT for Whole-Body Staging: Results of a Unicenter Trial in 1000 Patients

NM213-SD-MOB1 **Station #1**

Treatment of Castration-Resistant Prostate Cancer with Radium-223 Dichloride: A Clinical Experience

NM214-SD-MOB2 **Station #2**

Whole-body Staging Concept of Patients with Temporal Lobe Epilepsy Using Hybrid [(18) FDG] - PET/MRI

NM216-SD-MOB4 **Station #4**

12:45–1:15 PM

Education Exhibits

Carcinoma Tongue: It's Comparative Evaluation on 3T MRI, DWI, PET- CT and PET-MRI Fusion

MI118-ED-MOB4 **Station #4**

Signs and Artifacts in Amyloid PET Imaging

NM003-EB-MOB **Hardcopy Backboard**

The Many Faces of Parathyroid Adenoma - Approach to
Multimodality Imaging in Challenging Cases

NM143-ED-MOB5 **Station #5**

TUESDAY, NOV 27, 2018

12:15–12:45 PM

Scientific Posters

Controlled Technique of F18 FDG Dose Reduction for Digital
Photon Counting PET/CT Using List Mode Data Truncation

NM218-SD-TUA2 **Station #2**

Correlation of Immunohistochemical Parameters, Apparent
Diffusion Coefficient (ADC) and Standardized Uptake Value
(SUV) in Lung Cancer Using Hybrid PET/MRI

NM219-SD-TUA3 **Station #3**

MR Imaging of Zinc Depletion in Prostate Cancer

MI218-SD-TUA4 **Station #4**

Noninvasive Magnetic Resonance/Photoacoustic Imaging for
Photothermal Therapy Response Monitoring

MI217-SD-TUA3 **Station #3**

PET/3-T MRI in Locally Advanced Rectal Cancer: Role of SUV
and ADC Volumetric Histograms-Based Analyses in Predicting
the Tumor Regression Grade After Preoperative
Chemoradiotherapy

NM220-SD-TUA4 **Station #4**

Prediction of Tumor Biological Characteristics in Different
Colorectal Cancer Liver Metastasis Animal Models Using
18F-FDG and 18F-FLT

MI216-SD-TUA2 **Station #2**

Radiation Dose Reduction of PET-CT Scans by Adjusting
F18-FDG Dose Based On Patient BMI and Modifying
Low-Dose CT Protocol

NM217-SD-TUA1 **Station #1**

Susceptibility Weighted Imaging Study of SPIO Labeled Bone
Marrow Mesenchymal Stem Cells Transplanting into Cerebral
Ischemic Rats

MI214-SD-TUA1 **Station #1**

The Role of 18F-FDG SPECT/CT in Predicting EGFR Gene
Mutation Status in Lung Adenocarcinoma

NM221-SD-TUA5 **Station #5**

12:15–12:45 PM

Education Exhibits

Lymphoscintigraphy in Cutaneous Melanoma: Usual and
Unexpected Pathways of Lymphatic drainage

NM145-ED-TUA7 **Station #7**

The ABCs of FACBC: Helpful Hints to Interpret FDA Approved Fluciclovine F-18 PET/CT For Prostate Cancer Recurrence

MI119-ED-TUA5 **Station #5**

The Utility of PET/MR in Head and Neck Cancer

NM144-ED-TUA6 **Station #6**

12:45–1:15 PM

Scientific Posters

68Ga-RM2 PET/MRI Detection of Recurrent Prostate Cancer in Patients with Negative Conventional Imaging

MI223-SD-TUB5 **Station #5**

Are Staging F-18-FDG PET/MRI Radiomic Features Associated with Metastases in Cancer of the Gastro-Esophageal Junction?

NM225-SD-TUB4 **Station #4**

Comparison Of 68 GA PSMA And Whole Body Diffusion Weighted MR Imaging In Staging Of High Risk Prostate Cancer

MI222-SD-TUB4 **Station #4**

Effects of New Block Sequential Regularized Expectation Maximization (BSREM) Reconstruction Algorithm on SUVmax, MTV, and Changes of SUVmax on FDG PET-CT Before and After Neoadjuvant Chemotherapy in Patients with Esophageal Cancer

NM223-SD-TUB2 **Station #2**

MR Imaging Radiomics of NSCLC Brain Metastases: A Potential Targetable Imaging Biomarker for EGFR Status

MI219-SD-TUB1 **Station #1**

Solitary Pulmonary Nodules: Comparison of Differentiation Capability Among Actual Diffusion-Weighted Imaging and Computed Diffusion-Weighted Imaging at Different b Values and FDG-PET/CT

MI221-SD-TUB3 **Station #3**

Synthesis and Evaluation of a 68Ga-DOTA Labelled Peptidomimetic Inhibitor of Matrilysin for PET Imaging

MI220-SD-TUB2 **Station #2**

Time Course Change and Reproducibility of 18F-FAZA in the Patient with Head and Neck Squamous Cell Carcinoma

NM224-SD-TUB3 **Station #3**

To Evaluate the Unknown Primary Site of Tumour with 68Ga-DOTATOC PET/CT in Patients with Known Metastatic Neuroendocrine Tumor

NM222-SD-TUB1 **Station #1**

12:45–1:15 PM

Education Exhibits

Our First Year with Gallium-68 DOTATATE PET/CT: Lessons Learned Through RAD-PATH Correlation and Potential Pitfalls

NM146-ED-TUB5 **Station #5**

WEDNESDAY, NOV 28, 2018

12:15–12:45 PM

Scientific Posters

Comparing TNM Staging Adequacy and Processing Time of Structured Reports versus Fully Segmented and Annotated PET/CT Data of Non-Small Cell Lung Cancer

NM228-SD-WEA3 **Station #3**

Essential Information Which Helps to Reduce Negative FDG PET-CT Study in Investigating Large Vessel Vasculitis

NM227-SD-WEA2 **Station #2**

Impact of Different Iterative Metal Artifact Reduction (iMAR) Algorithms on PET/CT Attenuation Correction in Artifacts After Port Implantation

NM226-SD-WEA1 **Station #1**

Implications of Empiric I-131 Activity Administration to Treat Thyroid Cancer in Patients with Abnormal Renal Function

NM230-SD-WEA5 **Station #5**

Intelligent Bi2S3-Protein Nanocomposites for pH-Responsive Rapid Clearance and Oxygen Enhanced Radiotherapy

MI227-SD-WEA4 **Station #4**

Inter-Reader and Inter-Criteria Agreement of Three Interpretation Criteria of 68Ga-PSMA PET

MI224-SD-WEA1 **Station #1**

Patterns of 68Ga-PSMA-HBED Uptake of Sympathetic Ganglia on PET/CT

MI226-SD-WEA3 **Station #3**

Prevalence and Characteristics of 68Ga-PSMA-11 Uptake in the Prostatic Central Zone on PET-MR

MI225-SD-WEA2 **Station #2**

The Imaging and Uptake Properties of 5 nm USPIO Nonspecific MR Contrast Agents in Vitro and In Rats' Liver

MI228-SD-WEA5 **Station #5**

To Evaluate the Role of FDG PET/CT in Patients with Cutaneous Squamous Cell Carcinoma for Initial Staging

NM229-SD-WEA4 **Station #4**

12:15–12:45 PM

Education Exhibits

Peptide Receptor Radionuclide Therapy (PRRT): Update

NM147-ED-WEA6 **Station #6**

12:45–1:15 PM

Scientific Posters

Clinical Features of Secondary Primary Malignancies in Patients with Differentiated Thyroid Cancer Treated by Radioactive Iodine

NM235-SD-WEB5 **Station #5**

Comparing Osseous Lesions on 11C-Choline PET/CT and MRI in Prostate Cancer

NM232-SD-WEB2 **Station #2**

Comparison of Different Metal Artifact Reduction (MAR) Techniques in 18F-FDG PET/CT Examinations: How Do They Impact Attenuation Correction in Metal Implants?

NM233-SD-WEB3 **Station #3**

Examination of the Sentinel Lymph Node Scintigraphy Standardization

MI229-SD-WEB1 **Station #1**

Multifunctional Microbubble for Tumor Microenvironment-Responsive Enhanced Prostate Cancer Radiotherapy

MI231-SD-WEB3 **Station #3**

Plectin/Integrin-Targeted Bispecific Molecular Probe for the MRI/NIRF Imaging of Pancreatic Cancer

MI230-SD-WEB2 **Station #2**

Prognostic Utility of Semi-Quantitative Metrics from Pre-Treatment F-18 FDG PET/CT of Ewing Sarcoma

NM234-SD-WEB4 **Station #4**

Red Emissive Metalloporphyrin-Based Nanodots for Magnetic Resonance Imaging and Photodynamic Therapy in Vivo

MI232-SD-WEB4 **Station #4**

Standardized Uptake Value Atlas: Physiological and Abnormal 68Ga-RM2 Uptake in Patients with Prostate Cancer

MI233-SD-WEB5 **Station #5**

Variability of Cold-Activated Brown Adipose Tissue Depends on Thermoregulatory Brain Network

NM231-SD-WEB1 **Station #1**

12:45–1:15 PM

Education Exhibits

Immunotherapy in Oncology: Image Evaluation of the Adverse and Toxic Effects of Checkpoint Inhibitors

NM148-ED-WEB6 **Station #6**

THURSDAY, NOV 29, 2018

12:15–12:45 PM

Scientific Posters

18F-FDG PET/CT Postoperative Changes after Maxillectomy: Findings and Pitfalls in Interpretation

NM238-SD-THA3 **Station #3**

Added Value of Gastric Water Distension and Delayed FDG-PET/CT Scan in Characterization of the Gastric FDG Uptake

MI235-SD-THA2 **Station #2**

Characterizing Bladder Uptake in Fluciclovine PET: Potential for Diagnostic Uncertainty?

MI236-SD-THA3 **Station #3**

Correlation of ¹¹C-4DST Uptake with Isocitrate Dehydrogenase 1 Mutation in Patients with Gliomas in Comparison with ¹⁸F-FLT Uptake

NM236-SD-THA1 **Station #1**

Diagnostic Accuracy of Combined ¹²³I-MIBG Scintigraphy and ¹²³I-FP-CIT SPECT in the Differential Diagnosis of Degenerative Parkinsonism

NM237-SD-THA2 **Station #2**

Evaluating the Role of ⁶⁸Ga-PSMA PET/CT Imaging in Predicting Intraprostatic Tumor Extent of Tumor Involvement Prior to Various Surgical Protocols in Patients with Known or Diagnosed Prostatic Cancer

NM240-SD-THA5 **Station #5**

Imaging of Atherosclerotic Plaque Burden in ApoE KO Mice: A Comparison of In Vivo 7T MRI and Ex Vivo MicroCT

MI237-SD-THA4 **Station #4**

Impact of Patient Comfort on Diagnostic Image Quality during PET/MR Exam: An Objective Survey Study for Clinical Workflow Management

NM239-SD-THA4 **Station #4**

MR Imaging of NK92 Cells and Breast Cancer Tumors using hFTH1 Reporter Gene Carried by Dendrimer-Entrapped Gold Nanoparticles

MI234-SD-THA1 **Station #1**

12:15–12:45 PM

Education Exhibits

"A Burning Issue:" The Utilization of Tc-99m MDP Bone Scan with SPECT/CT in the Burn Unit

NM149-ED-THA6 **Station #6**

12:45–1:15 PM

Scientific Posters

¹⁷⁷Lu-DOTATATE Radioligand Therapy in Patients Affected by Somatostatin-Receptor-Positive Neuroendocrine Tumors

MI238-SD-THB1 **Station #1**

Accuracy of the Staging of the Locally Advanced Penile Carcinoma Using ¹⁸F-FDG-PET/MRI

MI240-SD-THB3 **Station #3**

Comparison of TNM Stage Evaluation Capability among Whole-Body MRI at 1.5T and 3T MR Systems, PET/MRI at 1.5T and 3T MR Systems and PET/CT in Non-small Cell Lung Cancer Patients

NM244-SD-THB4 **Station #4**

Evaluating the Role of 18F-FDG PET/CT in Diabetic Foot
NM243-SD-THB3 **Station #3**

Hyperintense Rim Sign on MRI STIR as a Diagnostic Correlate
 of Dermal Backflow on Lymphoscintigraphy in Patients with
 Upper Extremity Lymphedema
NM245-SD-THB5 **Station #5**

Imaging the Tumor Microenvironment in Vivo – Regulatory
 Mechanisms of Tumor Promoting Biomarker S100A9
MI239-SD-THB2 **Station #2**

Size of Detectable Melanoma Metastases to Brain
NM242-SD-THB2 **Station #2**

The Iodine/FDG “Flip-Flop” Phenomenon is Ambiguous in
 Bone Metastasis from Thyroid Cancer: Significant FDG Uptake
 is Observed Even in Iodine-Positive Lesions
NM241-SD-THB1 **Station #1**

Utility Of PET/CT 68GA-DOTA-UBI [29-41] for Diagnosis of
 Infection in Patients with Orthopedic Implants
MI241-SD-THB4 **Station #4**

12:45–1:15 PM

Education Exhibits

Theranostic Imaging of Prostate Cancers: 68Ga PSMA PET/
 CT / 177Lu PSMA Radionuclide Therapy
NM150-ED-THB6 **Station #6**

Education Exhibits

SPACE NO.	EXHIBIT TITLE
MI001-EB-X	Dual Assessment of Parkinson's Disease with ¹¹ C-DTBZ and ¹¹ C-Raclopride PET/CT: Recognizing the Patterns in the Striatum
MI100-ED-X	Biochemical Recurrence in Prostate Cancer: Rising Role of PET Imaging
MI101-ED-X	Expecting the Unexpected: Uncommon Finds with a New PET Radiotracer in a Clinical Practice
MI102-ED-X	Spotlight on Bones: Skeletal Pitfalls in ⁶⁸ Ga-PSMA PET/CT
MI103-ED-X	Lymphoma Mimickers on FDG PET/CT: Pearls and Pitfalls for Differential Diagnosis
MI104-ED-X	Differential Diagnosis of Degenerative Parkinsonisms: Review and Voxel-Based Analysis of FP-CIT SPECT and FDG PET Imaging
MI105-ED-X	When Things Go Wrong, Characteristic PET CT Patterns of Triple and Double-Hit Lymphoma; A Pictorial Review
MI106-ED-X	PERCIST 1.0 Simplified
MI107-ED-X	¹⁸ F-DOPA PET-CT Scan in the Evaluation of Neuroendocrine Neoplasms
MI108-ED-X	Role of PET-CT in Ovarian Cancer
MI109-ED-X	PET-CT in Splenic Lymphoma: The Magic of Fusion Imaging
MI110-ED-X	⁶⁸ Ga PSMA PET/CT and PET/MR for Prostate Cancer Metastasis: Beyond Lymphatic and Bone Dissemination
MI111-ED-X	All That Glitters is Not Gold: ⁶⁸ Ga-PSMA-HBED-CC PET/CT Pitfalls
MI112-ED-X	Toward Quantifiable Imaging Biomarker for Multiple Myeloma : Making a Translatable Model in Mice
MI113-ED-X	Superparamagnetic Iron Oxide Nanoparticles: Applications and Developments in Diagnostics and Therapy
MI114-ED-X	Extranodal Manifestations of Lymphoma on ¹⁸ F FDG-PET/CT: A Pictorial Essay

MI115-ED-X	Neuroendocrine Tumor Imaging: Current and Newer Agents
NM001-EB-X	The Sum of Two Powers: High Resolution Breast PET with Mammography Fusion
NM100-ED-X	A Pictorial Review of Arthritis on FDG-PET/CT: Key Features and Uptake Patterns for Differential Diagnosis
NM101-ED-X	Incidental Hematopoietic Retroperitoneal Mass: Hands off! Proposal of a Non-Invasive Diagnostic Approach and Review of the Literature
NM102-ED-X	"Wild & Crazy" Musculoskeletal Scintigraphy - The Bones and Beyond: A Quiz-based Approach
NM103-ED-X	Imaging of Merkel Cell Carcinoma: What Imaging Experts Should Know
NM104-ED-X	Spectrum of Benign Bone and Soft Tissue Findings on Sodium-Fluoride (NaF) PET
NM105-ED-X	Emerging Clinical Use of Technetium-99m Pyrophosphate Scintigraphy for Diagnosing Transthyretin-Related Cardiac Amyloidosis: What the Radiologist Needs to Know
NM106-ED-X	Congenital Heart: Role of Split Dose Ventilation-Perfusion Scan in the Bidirectional Glenn and Fontan Completion Patient
NM107-ED-X	A Comprehensive Review of the Valuable Role of Nuclear Myocardial Perfusion Imaging in Children with Heart Conditions
NM108-ED-X	Multimodality Imaging of Dementia Patients: Clinical Importance and Role of Integrated Anatomic and Molecular Imaging
NM109-ED-X	Needle in the Hay: The Role of F-CHOLINE PET CT Scan in the Detection of Ectopic Parathyroid Tissue
NM110-ED-X	PET/MRI Staging and Restaging Pediatric Lymphoma and Sarcoma in Less Than 30 Minutes-Initial PET/MRI Experience in a Stand-Alone Children Hospital
NM111-ED-X	Nuclear Medicine Myocardial Perfusion Studies: A Glance Beyond Coronary Abnormalities

NM112-ED-X	Evaluation of the Shielding Ability of Radiological Shielding Materials in Nuclear Medicine Including Annihilation Radiation
NM113-ED-X	Many Hands Make Light Work- 99mTc-MDP Bone SPECT/CT Scintigraphy of the Hands and Wrists: Pearls and Pitfalls
NM114-ED-X	Treatment Related Changes on PET/CT: Imaging Patterns
NM115-ED-X	CT and PETCT Detection of Tumor Thrombus in Various Atypical Malignancies and Their Incidence
NM116-ED-X	Clinical PET Imaging in Pediatric Brain Tumors
NM117-ED-X	FDG PET/CT Imaging in Systemic Autoimmune Disease
NM118-ED-X	The Peak of the Uptake: 68Ga-PSMA PET-CT in Prostate Cancer, Correlation Between Levels of PSA and Pattern of Dissemination Through a Semi- Quantitative Scale
NM119-ED-X	Current Status and Future Perspective of Molecular Imaging Studies in Prostate Cancer
NM120-ED-X	Differentiated Thyroid Carcinoma Radioiodine Refractory Patients: How Can FDG-PET/CT Help in the Theranostic Era?
NM121-ED-X	Pearls and Pitfalls of PET/CT in Infection and Inflammation: Be Aware!
NM122-ED-X	Is There A Role for 18F-FDG-PET/CT in the Evaluation of Neuroendocrine Tumors in the DOTATATE Era?
NM123-ED-X	Pearls, Pitfalls, Interpretative Criteria and Utility of F18-Flucicoline PET CT and Prostate MRI in Biochemically Recurrent Prostate Cancer - A Case Based Review
NM124-ED-X	Look at the Top, Before You Sign Off: Incidental Intracranial Findings on Whole Body FDG PET/CT Scans Obtained for Non-CNS Malignancies

NM125-ED-Xv	Pearls and Pitfalls of Quantitative Software Analysis of Dopamine Transporter Single Photon Emission Computed Tomography for Parkinsonian Syndromes
NM126-ED-X	Beyond a Needle and a Hot Spot: Biopsy of Osseous Lesions Identified on PET
NM127-ED-X	Non-Prostatic Diseases on PSMA-PET Imaging: A Spectrum of Benign and Malignant Findings
NM128-ED-X	Experience and Clinical Benefit of SPECT CT for Sentinel Node Biopsy in Oral Cavity SCC
NM129-ED-X	68Ga-DOTATATE PET Neuroimaging: A Case-Based Pictorial Review
NM130-ED-X	Precision Medicine: Y 90 Therasphere and Sirsphere Tumor Targeting in Liver Hepatocellular Carcinoma
NM131-ED-X	The Hunt is On: Finding the Culprit in Patients with Hyperparathyroidism
NM132-ED-X	Forget Something? Update and Review on Dementia and Parkinson's Disease Nuclear Medicine Imaging
NM133-ED-X	Indium-111 WBC and Gallium-67 Citrate SPECT/CT Evaluation of Infection: A Head-To-Toe Case-Based Review
NM134-ED-X	Normal Variants and Abnormal Patterns of Pancreatic Uptake on Ga-68 DOTATATE PET/CT
NM135-ED-X	Update on Hodgkin's Disease from a Radiology Perspective
NM136-ED-X	FDG-PET Evaluation of Cardiac Sarcoidosis: Technique, Diagnosis, and Extracardiac Findings
NM137-ED-X	Scintigraphic Presentation of Benign Bone Lesions in Children
NM138-ED-X	PET/CT Imaging of Tumor Response and Immune-Related Side Effects of Checkpoint Inhibitor Therapy in Cutaneous Melanoma
NM139-ED-X	Patterns of Lung Cancer Recurrence on 18F-FDG PET/CT: Loco-Regional and Distant Disease
NM140-ED-X	The Peritoneum: What Nuclear Radiologists Need to Know

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