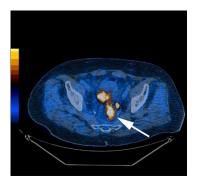
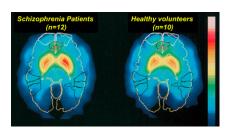
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Of mice and humans: de Jong and Maina provide an overview of the positive aspects as well as the shortcomings of laboratory animals as translational models for human studies, with a focus on tumor scintigraphy and radionuclide therapy..... Page 501

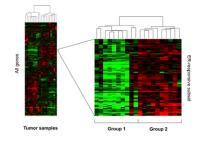
Myocardial viability assessment: Allman offers perspective on the history and status of ¹⁸F-FDG PET viability imaging in directing management of patients with coronary artery disease and poor left ventricular function and previews a related study in this issue of *JNM.* . . . Page 505



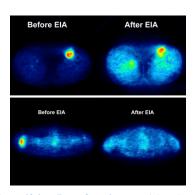
PET in schizophrenia: Patel and colleagues review the use of PET tracers and kinetic modeling in identifying regional brain abnormalities associated with cognitive functioning in schizophrenia, including challenges and future investigational directions in dopaminergic function. Page 511



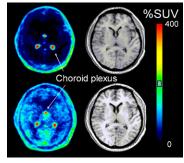
Dual-phase PET in lung adenocarcinoma: Houseni and colleagues investigate the prognostic value of glucose metabolism dynamics as assessed by dual-phase ¹⁸F-FDG PET in patients with adenocarcinoma of the lung. Page 535



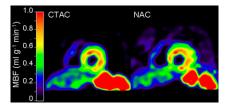
PET monitoring in sarcomas: Dimitrakopoulou-Strauss and colleagues evaluate the effect of early dynamic ¹⁸F-FDG PET imaging on management and outcomes in patients with soft-tissue sarcomas who received neoadjuvant chemotherapy...... Page 551



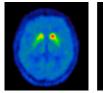
Quantifying P-gp function: Kreisl and colleagues look at the ability of ¹¹C-dLop PET to quantify permeability-glycoprotein function at the blood–brain barrier in humans. **Page 559**



Reducing artifacts in cardiac PET/CT:

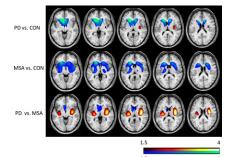


¹⁸F-DMFP PET and parkinsonian syndromes: la Fougère and colleagues describe the utility of the selective dopamine receptor ligand ¹⁸F-desmethoxyfallypride for differential PET diagnosis of patients with idiopathic and nonidiopathic parkinsonian syndromes. Page 581



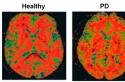


¹¹C-raclopride PET and parkinsonism: Van Laere and colleagues explore potential improvements in ¹¹C-raclopride PET differentiation between Parkinson disease and multiple-system atrophy with predominant parkinsonism through addition of dynamic scan analysis combining striatal dopamine-2 binding and regional tracer influx. Page 588



Imaging approaches to Parkinson disease: Brooks provides an educational overview of

the current roles of structural and functional imaging for diagnosing and managing different parkinsonian syndromes. . . Page 596







Positron emitters and small-animal PET:

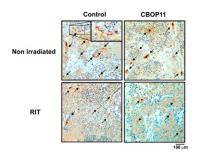
Disselhorst and colleagues report on detailed image quality assessments for several positron emitters using national standards in a high-resolution small-animal PET lutetiumoxyorthosilicate scanner. Page 610

Vitamin C and salivary 131I dosimetry:

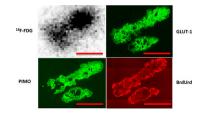
Liu and colleagues investigate the effect of vitamin C administered at various times on salivary absorbed dose of therapeutic radioiodine in patients with differentiated thyroid cancer. Page 618

Antiangiogenic agents and RIT efficacy:

Kraeber-Bodéré and colleagues evaluate the results of combining anti-carcinoembryonic antigen 131I-F6 monoclonal antibody radioimmunotherapy with thalidomide or a cyclopeptic vascular endothelial growth inhibitor in a mouse model of thyroid cancer. Page 624



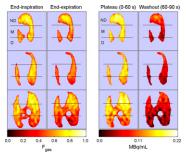
¹⁸F-FDG uptake in micrometastases: Li and colleagues examine 18F-FDG uptake in microscopic tumors grown intraperitoneally in mice and relate this to physiologic hypoxia and glucose transporter-1 expression. . . Page 632



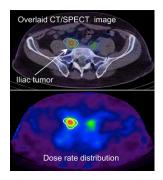
⁶⁸Ga-siderophores for PET: Petrik and colleagues evaluate the potential of radiolabeled iron-complexing ferric ion siderophobes in PET diagnosis of invasive pulmonary aspergillosis. Page 639

Gated PET of regional lung volume change:

Wellman and colleagues present a method using respiratory-gated PET images of inhaled ¹³N-nitrogen to measure regional specific lung volume change, a key variable in lung mechanics and pathogenesis of ventilatorinduced lung injury. Page 646



3D-based patient-specific dosimetry: Amro and colleagues describe the development of a 3-dimensional imaging-based dosimetry methodology incorporating antitumor biologic effects with biologically effective dose and equivalent uniform dose and present an example in patients with non-Hodgkin lymphoma undergoing radioimmunotherapy....Page 654



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¹⁸F-FLT uptake can be used to monitor the biologic response of esophageal squamous cell carcinoma to radiotherapy and may have an advantage over ¹⁸F-FDG in differentiating inflammation from tumor. Increased uptake of ¹⁸F-FLT after treatment interruption, as occurred in the patient shown here, may reflect accelerated repopulation. After the interruption, tumoral uptake rose above baseline whereas uptake in irradiated bone marrow decreased.



