JNM

¹⁸F-NaF kinetics and reproducibility:

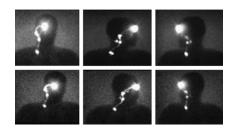


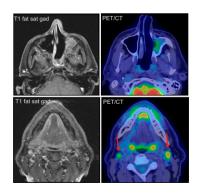




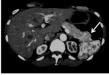


Reproducibility of lymphoscintigraphy:









Calcification and mvocardial ischemia:

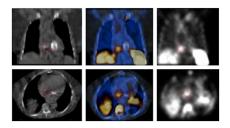
Yamazato and colleagues use adenosine stress myocardial perfusion SPECT to investigate the hypothesis that aortic valve calcification is strongly associated with inducible myocardial ischemia, even among asymptomatic patients..... Page 1216

Vulnerable folate-FITC plaque imaging:

Jager and colleagues conjugate the ligand folate with fluorescein isothiocyanate to

research the potential of folate receptor β fluorescence imaging in identifying vulnerable sites of macrophage accumulation in atherosclerotic plaque *Page 1222*

SPECT/CT in infectious endocarditis:



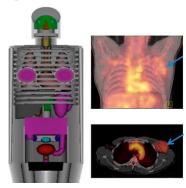
PET/MRI in oncology: Buchbender and colleagues continue their educational overview of integrated PET/MRI in oncologic applications with a review of current literature on utility in tumors of the bone, soft-tissue sarcoma, melanoma, and lymphoma. Page 1244

PET tracer selectivity: Wiriyasermkul and colleagues examine the interaction of PET tracer $^{18}\text{F-}\alpha$ -methyl tyrosine with L-type amino acid transporter 1 to elucidate mechanisms of tracer uptake in tumors...... *Page 1253*

¹⁸F-tracer uptake and microenvironment: Huang and colleagues compare intratumoral accumulation of ¹⁸F-labeled FDG, fluorothymidine, and misonidazole and relate the results to specific components of tumor microenvironment in mouse models of human non-small cell lung cancer Page 1262

PET in multiple sclerosis animal model:

NEMA NU 4-2008 comparison: Goertzen and colleagues review performance standards data from the National Electrical Manufacturers Association on a collection of commercial small-animal



ON THE COVER

Respiratory and cardiac motion is the most serious limitation to whole-body PET. Here, reconstructed PET images of a freely breathing monkey show that MRI-based motion correction in simultaneous PET/MRI increases contrast and resolution but does not increase noise. This results in significant improvement in PET image quality and is a compelling rationale for further evaluation in clinical studies.

See page 1291.

