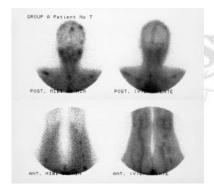
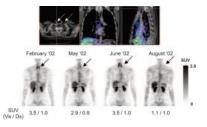
THIS MONTH IN



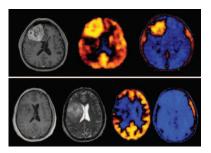
Koeppe and colleagues compare the relative and complementary abilities of ¹¹Cdihydrotetrabenazine and ¹⁸F-FDG PET measures in providing information useful in diagnosing dementias. Page 936

Chen and colleagues describe ¹⁸F-FLT PET imaging of tumor cell proliferation in brain gliomas and report on side-byside comparisons with ¹⁸F-FDG PET studies in the same patients. .. **Page 945**

Yun and colleagues assess the role of gastric distension by ingestion of water as a cost-effective method for improving the diagnostic accuracy of ¹⁸F-FDG PET in patients with suspected tumor recurrence in the remnant stomach. *Page 953*

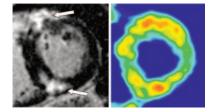


Siessmeier and colleagues assess the comparative merits of voxelwise parametric mapping of ¹¹C-raclopride, ¹⁸F-DMFP, and ¹⁸F-fallypride in PET quantification of relative concentrations of dopamine $D_{2/3}$ receptors in the human brain. *Page 964*



Koutsikos and colleagues investigate the combined use of ^{99m}Tc-sestamibi and ^{99m}Tc-V-DMSA scintigraphy in evaluating the effectiveness of chemotherapy in patients with multiple myeloma. *Page 978*

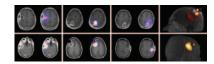
Constantinesco and colleagues report on the utility of in vivo pinhole gated SPECT in the establishment of a reference database for left ventricular myocardial perfusion, volumes, and motion in a normal mouse model. Page 1005



van Schaijk and colleagues investigate the characteristics of a peptidase-resistant bivalent peptide to improve the residence time of ¹³¹I in tumor pretargeting. *Page 1016*

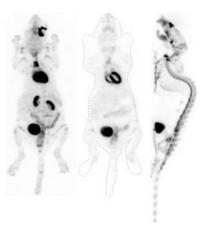
la Fougère and colleagues assess striatal dopamine D_2 receptor availability by means of ¹²³I-IBZM SPECT in patients treated with high and low doses of amisulpride, a promising antipsychotic drug. *Page 1028*

Shen and colleagues report on a method



Zhang and colleagues describe an in vitro study in vascular smooth muscle cells to determine whether a ^{99m}Tc-labeled antisense oligonucleotide to the messenger RNA of proliferating cell nucleus antigen can be used for imaging of

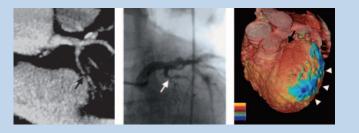
Herzog and colleagues report on the effect of head motion on PET imaging of cerebral neuroreceptors and suggest ways in which the dynamic PET data may be corrected for head movement. Page 1059



Bauer and colleagues look at the potential for using caspase substrates activated after the onset of apoptosis as an alternative target for apoptosis imaging and perform in vitro assessments of uptake and cell retention of these enzymes. Page 1066

ON THE COVER

On the left, a contrast-enhanced CT angiogram shows a stenotic lesion in the left circumflex coronary artery with faint poststenotic flow. In the center, a coronary angiogram shows the same stenotic lesion. On the right, a 3-dimensional reconstructed multislice spiral CT scan



superimposed by a color-coded stress perfusion PET scan shows the coronary artery tree and the shape of the heart. Blue indicates a reversible perfusion defect. This image, by revealing a reduced hyperemic response to adenosine stress in the lateral wall, documents that the lesion seen in the first 2 images is hemodynamically relevant.