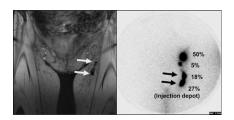
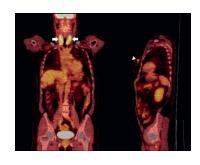
# JNM

## In vivo tracking of cellular therapy:

Aarntzen and colleagues review recent innovations in transplantation of living cells that advance regeneration of damaged tissue, replace function, and redirect aberrant processes . . . Page 1825

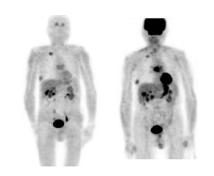


**PET/CT and MTV in myeloma:** Fonti and colleagues report on whether metabolic tumor volume as determined by <sup>18</sup>F-FDG PET/CT can be used to predict progression-free and overall survival in patients with multiple myeloma . . . . . *Page 1829* 



### <sup>18</sup>F-FDG and <sup>18</sup>F-DOPA PET in MTC:

Verbeek and colleagues compare these 2 PET tracers with biochemical parameters and survival in patients with medullary thyroid carcinoma to assess potential utility in detecting progressive disease . . . . . . . Page 1863

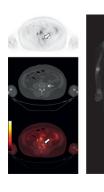


**Integrin imaging in DTC:** Zhao and colleagues evaluate integrin  $\alpha_{\nu}\beta_{3}$  imaging in the detection of radioactive iodine–refractory differentiated thyroid cancer lesions and resultant identification of feasible antiangiogenic therapeutic targets. . . . . . *Page 1872* 

### Segmentation-based AC in PET/MRI:

Kim and colleagues analyze potential bias in standardized uptake value estimation using 4 different segmentation-based attenuation correction methods on data from cancer patients with bone and liver lesions. . . . . Page 1878

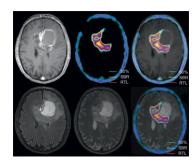
<sup>18</sup>F-DCFBC tumor detection and dosimetry: Cho and colleagues describe initial clinical experiences with and radiation dosimetry of this PET tracer, a low-molecular-weight,



### Gating error and cardiac dyssynchrony:

# <sup>18</sup>F-FLT PET and survival in glioma:

Idema and colleagues assess various <sup>18</sup>F-FLT PET segmentation methods to estimate proliferative volume and its prognostic value for overall survival in patients with suspected high-grade glioma............ Page 1904

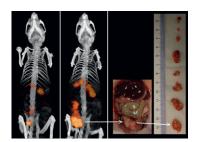


18F-FLT PET in glioma: Yamamoto and colleagues evaluate 18F-FLT uptake on PET in patients with newly diagnosed and recurrent gliomas and correlate the results with tumor grade and proliferative 

PET/MRI for neurologic applications:

Catana and colleagues provide an educational overview of methodologic improvements in hybrid PET/MRI and discuss potential neurologic and psychiatric applications..... Page 1916

Pretargeted immuno-SPECT: Schoffelen and colleagues describe the use of pretargeted immuno-SPECT with TF2 and 111In- or <sup>177</sup>Lu-IMP288 to predict and confirm tumor targeting and monitor the therapeutic effect of radioimmunotherapy . . . . . . Page 1926



Imaging radiovirotherapy: Haddad and colleagues assess the feasibility and parameters of serial imaging and long-term monitoring of virotherapy and response of pancreatic cancer xenografts treated with a vaccinia virus carrying the human sodium iodide symporter GLV-1h153..... Page 1933

HER2-HER3 bispecific radioimmunoconjugates: Razumienko and colleagues construct agents and use SPECT/CT to evaluate tumor imaging in athymic mice that express one or both human epidermal growth factor receptors . . . . . Page 1943

Matched terbium radionuclide quadruplet: Müller and colleagues describe a proof-of-concept study designed to produce 4 terbium radioisotopes and assess their diagnostic and therapeutic features in vivo when labeled with a folate-based targeting agent . . . . . . . . . . Page 1951

GLP-1R PET in myocardial ischemia: Gao and colleagues use noninvasive PET to monitor the presence and time course of regional myocardial glucagonlike peptide 1 receptor expression after myocardial ischemia or reperfusion . . . . . . Page 1960

<sup>123</sup>I-5I-R91150 SPECT after morphine:

Adriaens and colleagues use SPECT and a radiolabeled 5-HT<sub>2A</sub> radioligand to assess the influence of systemic morphine on cerebral 5-hydroxytryptamine receptor 2A binding in dogs . . . . . . . . Page 1969

GABA<sub>A</sub> receptor density in epilepsy: Syvänen and colleagues investigate whether flumazenil blood-brain barrier transport and binding to the benzodiazepine site on the γ-aminobutyric acid A receptor complex is altered in epilepsy and explore implications for 11C-flumazenil PET interpretation. . . . . . . . Page 1974

Hyperoxic lung injury imaging: Clough and colleagues describe changes in lung uptake of 99mTc-HMPAO and 99mTcduramycin, a new marker of cell injury, in rats exposed to hyperoxia for prolonged periods . . . . . . . . . Page 1984

### ON THE COVER

In this PET/MRI study of an epilepsy patient, a distinctly hypometabolic area typically corresponding to an epileptogenic focus is seen in the left temporal lobe.

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High-resolution Fused PET/MRI