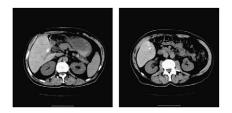
## THIS MONTH IN

## JNM

Kidney Pyruyate	Liver	<sup>13</sup> C-Lactate Tumor Pyruvate Lactate
Lactate Pyruvate-H <sub>2</sub> O	Pyruvate	Alanine

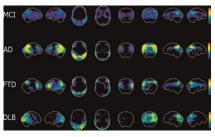
A new PET technology: Chatziioannou discusses an article in this issue of *JNM* on virtual-pinhole PET, a novel approach that provides PET imaging with the geometric considerations and associated magnification advantages of pinhole SPECT. ..... Page 345

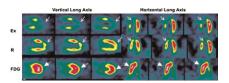
 Adjuvant <sup>131</sup>I-lipiodol for resected HCC: Boucher and colleagues update follow-up results on the effectiveness of a single postoperative injection of <sup>131</sup>I-labeled lipiodol in the hepatic artery at the time of resection for hepatocellular carcinoma. ..... Page 362

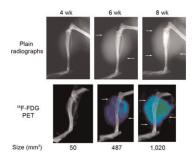


<sup>99m</sup>Tc-MDP studies of bone remodeling: Moore and colleagues compare 3 methods of measuring whole-skeleton plasma clearance of this tracer in osteoporotic women and discuss the importance of reliable quantitative measures of bone remodeling in research and treatment. .... Page 375

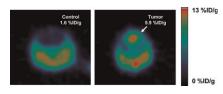






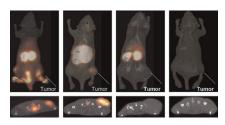


<sup>18</sup>F-FLT PET in mouse gliomas: Bradbury and colleagues describe the use of <sup>18</sup>F-FLT for detecting and characterizing high-grade gliomas in mice, with the goal of developing a reliable method of kinetic analysis for the quantitative evaluation of tumor proliferation. ......... Page 422

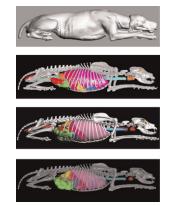


**Canine dosimetry phantom:** Padilla and colleagues describe the construction of a 3-dimensional computational phantom of a large dog and review the importance of canine models in current preclinical testing of antineoplastic agents. . . . . **Page 446** 

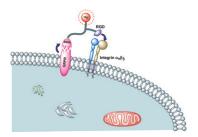
**Molecular imaging of** *bcl-2*: Jia and colleagues report on development and initial studies of <sup>111</sup>In-labeled conjugates targeting *bcl-2* gene expression and discuss possible applications in identifying patients with lymphoma at risk for relapse and treatment failure. ..... *Page 430* 



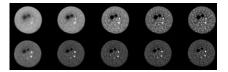
**Radiation dosimetry of <sup>18</sup>F-MK-9470:** Van Laere and colleagues use whole-body PET/CT to characterize the biodistribution and dosimetry of a novel high-affinity, subtype-selective radioligand for the cannabinoid type-1 receptor in humans. .... Page 439



<sup>18</sup>F-labeled bombesin–RGD heterodimer: Li and colleagues report on the tumor-targeting efficacy and pharmacokinetics of a peptide ligand recognizing both gastrin-releasing peptide receptors and integrin  $\alpha_v\beta_3$ . ..... Page 453

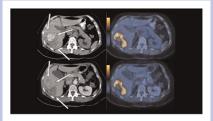


**Time-of-flight PET:** Karp and colleagues explore the benefits of time-of-flight PET techniques in experimental phantoms to determine whether and how these benefits translate into improved performance for clinical imaging. ..... Page 462



## ON THE COVER

Data suggest that contrast-enhanced PET/CT might be considered the first-line restaging tool for suspected recurrence of colorectal cancer. At top, unenhanced PET/CT reveals a large, hypodense <sup>18</sup>F-FDG–avid lesion in the right liver lobe. At bottom, enhanced PET/CT clearly reveals the liver vessels and their relationship to the lesion and clearly identifies the lesion margins. This patient, who had been treated earlier for sigmoidal carcinoma, was referred because of an increasing carcinoembryonic antigen level. The patient underwent surgery, and the lesions were confirmed histologically.



See page 360.