THIS MONTH IN

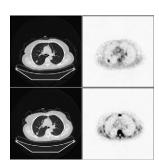
JNM

Combining optical and nuclear imaging:

Culver and colleagues provide a molecular imaging focus on the current status of multimodality applications fusing PET or SPECT with optical techniques in small-animal and clinical studies. . . . Page 169

PET and CT accuracy in pulmonary nodules:

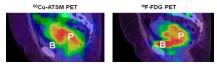
Dual-tracer PET/CT in lung nodules: Tian and colleagues describe the results of a clinical trial investigating the complementary capabilities of ¹⁸F-FDG and ¹⁸F-FLT in PET/CT imaging of pulmonary nodules. . . . *Page 186*

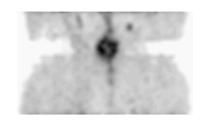


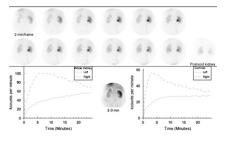
Optimal imaging strategies in multiple myeloma: Fonti and colleagues compare the contributions of ¹⁸F-FDG PET/CT, ^{99nr}Tcsestamibi scintigraphy, and MRI in whole-body and regional evaluation of patients with newly diagnosed multiple myeloma. Page 195



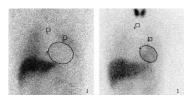
PET and tumor hypoxia: Dehdashti and colleagues report on the use of pretreatment ⁶⁰Cu-ATSM PET in assessing tumor oxygenation as a predictor of outcomes in patients with cervical cancer. Page 201



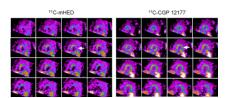




Candidates for ICD: Nagahara and colleagues assess altered autonomic function, as measured by cardiac MIBG activity, as a partial predictor of fatal cardiac events and as a method for identifying patients who would benefit most from implantable cardioverter defibrillators. Page 225

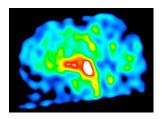


Sympathetic mismatch in ischemic CHF:

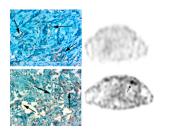


Abbreviating misery perfusion scans:

Evaluation of ¹²³I-ADAM **imaging:** Frokjaer and colleagues explore several kinetic and semiquantitative methods for assessing serotonin transporter binding using ¹²³I-ADAM SPECT in humans. . . . *Page 247*



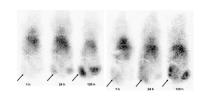
¹⁸F-galacto-RGD PET in breast cancer:



Uncommon causes of thyrotoxicosis:

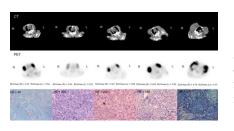
Mittra and colleagues offer an educational overview of the less common causes of elevated free thyroid hormones and provide illustrative patient cases as well as best-practice recommendations. Page 265

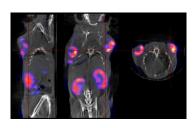
Pulsed HIFU and tumor mAb uptake:



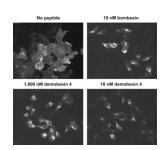
PET/CT and chemosensitivity: Song and colleagues investigate whether ¹⁸F-FDG PET/CT can be used for in vivo chemosensitivity testing and identify optimal time points for such imaging in cisplatin administration in rabbits with implanted

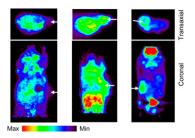
squamous cell tumors. Page 303





Bombesin analogs in tumor targeting:

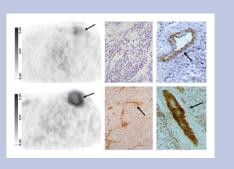




ON THE COVER

The integrin $\alpha_{\nu}\beta_{3}$, an interesting target for specific therapies in oncology, is highly expressed on activated endothelial cells during angiogenesis and plays an important role in the regulation of tumor growth, local invasiveness, and metastatic potential. As confirmed by the immunohistochemistry images, these $^{18}F\text{-galacto-}RGD$ PET images of invasive ductal breast cancer show $\alpha_{\nu}\beta_{3}$ expression predominantly on the neovasculature.

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This Month in JNM

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