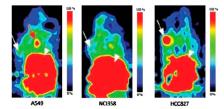
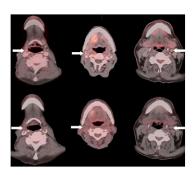
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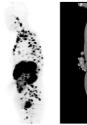


Significance of kinetic enhancement: Berridge provides perspective on the role of kinetic enhancement in radiopharmaceutical effectiveness and previews an article in this issue of *JNM* on the effect of radiopharmaceutical-to-serum protein binding on tracer kinetics. Page 1203

Preoperative PET in head and neck cancer:

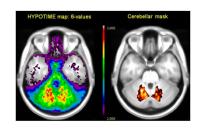


PET detection of bone metastases: Putzer and colleagues assess the comparative diagnostic values of CT imaging and somatostatin analog ⁶⁸Ga-DOTATOC PET in early detection of bone metastases from neuroendocrine tumors. *Page 1214*



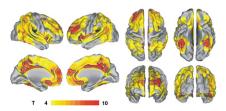


¹¹C-acetate uptake regulation in HCC: Yun and colleagues explore patterns of ¹¹C-acetate and ¹⁸F-FDG uptake on PET/CT and expression of regulatory enzymes related to glycolysis and lipid synthesis in hepatocellular carcinoma. Page 1222

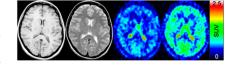


¹²³I-MIBG and ¹⁸F-FDG in neuroblastoma:

¹⁸F-Flutemetamol PET: Nelissen and colleagues report on a phase 1 study of ¹⁸F-flutemetamol, a thioflavin derivative of



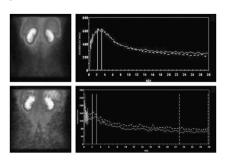
Altered serotonin transporters in AD:



¹¹C-Methionine PET in MI: Morooka and colleagues examine whether ¹¹C-methionine localizes in areas of myocardial infarction after successful reperfusion and assess the

potential for PET imaging of the initial processes of remodeling. Page 1283

Single-shot cardiorenal scintigraphy:



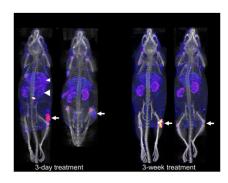
Predictive CAD testing: Shaw and Narula provide an educational overview of risk assessment, predictive accuracy, and economic outcomes for 3 commonly applied cardiac imaging procedures and highlight the potential added value of hybrid imaging. **Page 1296**

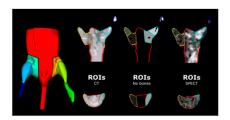
Measuring spatial resolution in PET:

Lodge and colleagues report on a quality assurance method for measuring spatial resolution in PET, designed to assist in standardization of data collection for enhanced comparison of results, particularly those from multicenter trials. . . . Page 1307

Kinetic model for CSF RIT delivery: Lv and colleagues describe a pharmacokinetic

spect/ct and HER2 expression: McLarty and colleagues describe animal studies on ¹¹¹In-DTPA-pertuzumab SPECT detection of early molecular response to trastuzumab as indicated by HER2 downregulation and of tumor response with decreased numbers of HER2-positive viable tumor cells. Page 1340

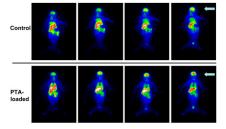


Quantitative imaging of angiogenesis: Dobrucki and colleagues report on validation studies of a semiautomated approach for serial quantitative evaluation 

K-Ras and uptake in thyroid cancer:

Apoptosis in right ventricular disease:

Serum protein binding of ¹²³I-IMP: Kuga and colleagues investigate whether amino acid infusion can improve cerebral accumulation of this SPECT tracer by competitive displacement of serum protein



ON THE COVER

Time-of-flight PET significantly improves observer performance in detecting focal lesions on a noisy background, as illustrated by this ¹⁸F-FDG PET/CT scan of a patient with esophageal cancer and a body mass index of 27. The reconstructions that include time-of-flight information show improved uniformity in the liver and mediastinal region and better delineate the bone marrow in the ribs and spine.

