## THIS MONTH IN

## JNM



<sup>11</sup>C-PK11195 in vasculitides: Lamare and colleagues investigate whether PET/CT angiography using a selective ligand for the translocator protein 18 kDa, expressed in activated macrophages, can allow imaging and quantification of arterial wall inflammation in patients with large-vessel vasculitis. ..... Page 33



**PET in FIRES:** Mazzuca and colleagues describe the utility of <sup>18</sup>F-FDG PET in identifying the location of neocortical dysfunction in pediatric febrile infection–related epilepsy syndrome, a recently described entity of unknown etiology. . . . . . . . . . . . . . . . . Page 40





**Myocardial OEF and dynamic** <sup>15</sup>O<sub>2</sub> **PET:** Lubberink and colleagues determine the accuracy of oxygen extraction fraction measurements using a dynamic PET protocol after bolus inhalation of <sup>15</sup>O<sub>2</sub>.....Page 60



**Localization with <sup>90</sup>Y PET/CT:** Gates and colleagues evaluate the results of PET/CT imaging to determine <sup>90</sup>Y glass microsphere distribution in patients after implantation for transarterial radiation treatment of liver tumors. . . . . Page 72









## <sup>68</sup>Ga-DOTATOC reporter gene imaging:



<sup>18</sup>F-PFH PET for renal imaging: Awasthi and colleagues explore the potential of  $p^{-18}$ F-fluorohippurate for PET imaging to measure effective renal plasma flow and function. ..... Page 147

## **ON THE COVER**

Head motion is difficult to avoid in long PET studies, degrading image quality and offsetting the benefit of using a high-resolution scanner. As a potential solution, simultaneously acquired MRI data can be used for motion tracking. The prototype dedicated brain scanner shown here, which can be operated inside the bore of an MRI scanner, has the potential to improve PET image quality and to benefit many neurologic applications.

See page 155.

