Research

**Tau Imaging in Staging Alzheimer Disease**

Wang and coauthors evaluate the usefulness of [18F]-AV-1451 positron emission tomography (PET) imaging to stage AD and assess the associations among β-amyloid (Aβ), tau, and volume loss. An imaging study was conducted, and a total of 59 participants who were cognitively normal (CN) (Clinical Dementia Rating [CDR] score, 0) or had AD dementia (CDR score, >0) were included. They report use of [18F]-AV-1451 has a potential for staging of the preclinical and clinical phases of AD. β-Amyloid interacts with hippocampal and cortical tauopathy to affect neurodegeneration. In the absence of Aβ, hippocampal tau deposition may be insufficient for the neurodegenerative process that leads to AD. Editorial perspective is provided by William Jagust, MD.

- Editorial 1049
- Continuing Medical Education jamanetworkcme.com

**Distinct Subtypes of Behavioral Variant Frontotemporal Dementia**

Ranasinghe et al identify subtypes of bvFTD syndrome based on distinctive patterns of atrophy defined by selective vulnerability of specific functional networks targeted in bvFTD using statistical classification approaches. In this retrospective observational study, 90 patients meeting the Frontotemporal Dementia Consortium consensus criteria for bvFTD underwent evaluation. They conclude divergent patterns of vulnerability in specific functional network components make an important contribution to the clinical heterogeneity of bvFTD. Editorial perspective is provided by David S. Knopman, MD.

- Editorial 1051

**Autoimmune Encephalitis With Anti-CASPR2 Antibodies in CSF**

Joubert and colleagues characterize the clinical and biological presentations of patients with anti-CASPR2 antibodies in the cerebrospinal fluid (CSF). They conducted a retrospective cohort analysis of 18 patients who had anti-CASPR2 antibodies in their CSF between March 2009 and November 2015 at the Centre National de Référence pour les Syndromes Neurologiques Paranéoplasiques in Lyon, France. In this cohort study, they find anti-CASPR2 antibodies in the CSF are associated with a subtype of autoimmune encephalitis with prominent limbic involvement and seizures that is rarely associated with cancer. Editorial perspective is provided by Christian G. Bien, MD.

- Editorial 1058

**Allogeneic Hematopoietic Stem Cell Transplantation in MLD**

Groeschel and colleagues compare the long-term outcome of patients who underwent allogeneic HSCT with control patients who did not among a cohort with juvenile MLD. Patients with juvenile MLD born between 1975 and 2009 and who received HSCT at a median age of 7 years (age range, 1.5-18.2 years) and nontransplanted patients with juvenile MLD born between 1967 and 2007 were included in this case-control study. They find among patients with juvenile MLD, patients who underwent HSCT had a better gross motor and language outcome and lower MRI severity scores compared with nontransplanted patients.