Effect of Race on Prediction of Brain Amyloidosis by Plasma Aβ42/Aβ40, Phosphorylated Tau, and Neurofilament Light

This study evaluated whether plasma biomarkers of amyloid, tau, and neuroaxonal injury detect brain amyloidosis consistently across racial groups. Prediction of brain amyloidosis varied between African American and non-Hispanic White individuals, particularly in models based on plasma p-tau181, p-tau231, and NfL, suggesting that diagnostic tests must be validated in diverse groups or disproportionate misdiagnosis of underrepresented groups could occur.

Page 94

Association of β-Amyloid and Vascular Risk on Longitudinal Patterns of Brain Atrophy

This study found that heightened vascular risk interacts with elevated β-amyloid burden to promote more severe brain atrophy, which consequently influences cognitive decline in clinically normal older adults. These findings suggest that vascular risk factor management may serve as a potential intervention to slow neurodegeneration and cognitive decline in preclinical Alzheimer disease.

Page 96

Continued
Longitudinal Cognitive Changes in Genetic Frontotemporal Dementia Within the GENFI Cohort

This study investigated cognitive decline in a large cohort of genetic frontotemporal dementia (FTD) pathogenic variant carriers and whether gene-specific differences are moderated by disease stage. Cognitive decline was confirmed in the asymptomatic and prodromal stages of genetic FTD, and tests for attention, executive function, language, and memory showed clear differences between genetic groups and controls at baseline.

Page 97

NB: “Cytotoxic Edema Involving the Corpus Callosum and Middle Cerebellar Peduncles in a Young Patient With Mild COVID-19,” p. 115. To check out other NeuroImages, point your browser to Neurology.org/N. In the Resident & Fellow Section, check out the Clinical Reasoning article on a 67-year-old woman with abdominal pain, constipation, and urinary retention as well as the Pearls & Oysters article discussing the diagnosis and subtyping of listeria ventriculitis in an immunocompetent host. This week also includes a Teaching Video NeuroImage titled “Neonate With Complex Movement Disorder and Seizures.”

NEW EPISODE

The Neurology® Podcast provides practical, relevant, and timely information for neurologists and all clinicians to practice the best possible neurologic-based medicine for our patients. Each episode features interviews with authors of recent articles from the Neurology journals and beyond.

NPub.org/podcast