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Editor’s Choice

THE MIDBRAIN TO PONS RATIO: A SIMPLE AND SPECIFIC MRI SIGN OF PROGRESSIVE SUPRANUCLEAR PALSY

Gennarina Arabia, Aldo Quattrone, Catanzano, Italy:
Massey et al. developed a measure of the midbrain and pons, and midbrain/pons ratio, to identify patients with progressive supranuclear palsy (PSP).1 These measurements varied among PSP, Parkinson disease (PD), and multiple system atrophy (MSA) groups. However, these measurements could not determine the disease at the individual level. We investigated MRI-based brainstem measurements and found that middle cerebellar peduncle (MCP) width accurately differentiated MSA patients from PD patients with a sensitivity, specificity, and positive predictive value of 100%.2 We also described a new imaging measure, the Magnetic Resonance Parkinsonism Index (MRPI), that can differentiate patients with PSP from those affected by either PD or MSA.3 The MRPI was calculated by multiplying the midbrain/pons ratio by the MCP/superior cerebellar peduncle (SCP) widths. The latter brain structures are selectively involved in MSA and PSP, respectively. Similar to Massey et al.’s data,1 we showed midbrain/pons ratio values overlapped among patients with PSP and those with PD and MSA, demonstrating that MCP and SCP width measurements are needed to accurately identify patients with MSA or PSP.

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THALAMIC GLUTAMATE/GLUTAMINE IN RESTLESS LEGS SYNDROME: INCREASED AND RELATED TO DISTURBED SLEEP

Dario M. Zagar, Fairfield, CT: In addition to the role of dopamine in subjective sensory symptoms, Allen et al. raised some intriguing questions regarding the potential role of glutamate in the sleep disturbance accompanying restless legs syndrome (RLS).1 One potential confounding factor that was not mentioned is the higher rate of anxiety in patients with RLS. This may also involve glutamate dysregulation and be associated with hyperarousal and insomnia. Perhaps there are not 2 separate pathways in RLS, but 2 separate yet related disorders at play.

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OPINION & SPECIAL ARTICLES: THE LOST RESIDENT: WHY RESIDENT PHYSICIANS STILL NEED MENTORING

William D. Freeman, Jacksonville, FL: Drs. Strowd and Reynolds reported on mentorship in neurology.1 In 2011, the AAN published the results of the neurology resident survey of 285 residents.2 Sixty-one percent of respondents cited a local mentor as the primary reason for choosing a fellowship. Therefore, mentors have a pivotal role in influencing future neurologists’ fields of interest. The authors should be commended for the historical review on mentorship and the need for more mentor programs. The AAN has created an online forum for those seeking mentorship and mentors to connect.3 However, this forum is likely underutilized and not well recognized.

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Neurology 2013;81;2147
DOI 10.1212/01.WNL.0000437347.92583.fc

This information is current as of December 9, 2013