

- Cognitive impairment in multiple sclerosis (MS) is common but its evaluation is time consuming; our objective was to improve early detection of cognitive impairment in MS.
- Global brain atrophy was evaluated by using the third-ventricle (V3) width (in mm).
- A composite score, named HV3, was obtained by adding the EDSS and V3-width and correlated with the results at the Paced Auditory Serial Addition Test (PASAT).
- A cutoff HV3 score over 5.5 identified patients with low PASAT performance.
- The HV3 score is an additional and complementary tool, accessible in clinical practice, to suspect easily cognitive impairment in patients with MS and to better identify patients requiring a complete cognitive assessment.

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