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The Advent of Digital Assessment Tools: A New Era in Neuropsychological Evaluation

Saturday, September 13, 2025 4:35 PM (15 minutes)

Neurodegenerative diseases represent one of the most significant challenges of healthcare systems, with implications for patients, caregivers, and society. Nowadays there are no definitive cures available, and early symptom recognition is essential to enable timely intervention and slow disease progression. However, traditional diagnostic methods are often complex, time and resource intensive, and insufficiently sensitive to early-stage symptoms. To address these limitations, we propose an innovative approach combining the digitization of clinically validated neuropsychological assessments with the integration of technological devices. This system enables noninvasive standardization of procedures, reduces human error through automated response recording, minimizes transcription and interpretation biases, decreases inter-operator variability, and supports objective, longitudinal assessments. The evaluation of the system's usability was a crucial element in ensuring its effectiveness in real clinical settings. To this end, a laboratory study was conducted with real users to examine the ease of use and the integration of the system into everyday clinical practices. Results demonstrated good overall usability and participants found the system intuitive and judged it to be easily integrable into clinical settings.

If you're submitting a symposium talk, what's the symposium title?

Rethinking the Future of Cognitive Testing: When Tradition Meets Innovation, Technology, and Open Science

If you're submitting a symposium, or a talk that is part of a symposium, is this a junior symposium?

Yes

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