

Peer Review

Review of: "Smartphone-Based Behavioural Profiling for Distinguishing Dementia with Lewy Bodies from Alzheimer's Disease"

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The manuscript presents a well-conducted study that introduces an accurate, efficient, and cost-effective method for differentiating between types of dementia that often present overlapping symptoms. While neuroimaging and clinical assessments continue to be central to diagnosis, this approach provides an additional and valuable tool to support prognosis and guide treatment strategies. This work focuses on isolating the core symptoms of DLB and achieving reliable discrimination using a simple task and accessible tools. The manuscript is generally well-written, with appropriate references to the literature, a clear explanation of the proposed advance, and an honest discussion of its limitations. My suggestion would be to clarify certain aspects in the Results section. For instance, in the "General overview" (first paragraph), it is unclear whether the comparison refers to HC versus both dementia groups combined (I assume this is the case), or HC versus each dementia group separately. Then, regarding the statement about DLB patients showing short saccade amplitudes, I could not clearly identify where this pattern is shown in the data. Clarifying points like these would strengthen the interpretation of the findings.

Declarations

Potential competing interests: No potential competing interests to declare.